

**Oracle® Retail Promotion Intelligence and  
Promotion Planning and Optimization**

Release Notes

Release 12.0.3

April 2007

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# Preface

Oracle Retail Promotion Intelligence analyzes the results of past promotions and advertising and the affinity effects of products on one another to deliver insight into the performance of a promotional strategy.

Oracle Retail Promotion Planning and Optimization assists you in creating and improving your promotions. It allows you to leverage the information gained from Promotion Intelligence to make the best promotion decisions by using what-if analysis and predictive forecasting.

Promotion Planning and Optimization combines analysis, planning, and implementation components to give retailers the capability to achieve the highest return on their advertising, promotion, and inventory investments.

## Audience

This document is intended for administrators of the Oracle Retail Promotion Intelligence and Promotion Planning and Optimization application.

## Related Documents

For more information, see the following documents in the Oracle Retail Promote documentation set:

- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Configuration Guide*
- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Operations Guide*
- *Oracle Retail Promotion Intelligence User Guide*
- *Oracle Retail Promotion Planning and Optimization User Guide*
- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Installation Guide*
- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Sample Dataset Guide*

## Customer Support

- <https://metalink.oracle.com>

When contacting Customer Support, please provide:

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

## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	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.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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# Release Notes

These release notes contain the following information:

- “What’s New in Oracle Retail Promotion Intelligence and Promotion Planning and Optimization 12.0.3” on page 1-1
- “What’s New in Oracle Retail Promotion Planning and Optimization 12.0.3” on page 1-1
- “Documentation Updates” on page 1-1
- “Fixed Bugs” on page 1-13
- “Known Issues” on page 1-14

## What’s New in Oracle Retail Promotion Intelligence and Promotion Planning and Optimization 12.0.3

This release includes the following enhancements.

### Analytics Support

- Support is available so that the analytics tools (APC) can connect directly to the Promote data without making a separate copy of the database.
- The transaction database has been expanded to account for the existence of rich promotional codes in the transaction data.
- Significant improvements have been made to the scalability of the built-in analytics tools (baseline and tae).

### Client Requests

- Limited support is available for organizing promotions by events.
- Back-end support is available for multiple offers per position.

### Other Enhancements

- Export files can be downloaded to a user’s desktop.
- Large promotion support, including support for the paging of very large lists, is available in the UI.

## Documentation Updates

This section contains updates to the following documents:

- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Standard Interface* Release 12.0.2

- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Operations Guide Release 12.0.2*
- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Configuration Guide Release 12.0.2*
- *Oracle Retail Promotion Intelligence and Promotion Planning and Optimization Installation Guide Release 12.0.2*

The updates include:

- Standard Interface changes
- Store Set availability
- Standard Load changes
- Installation procedure changes
- Database configuration changes
- Script changes

## Standard Interface Changes

The following changes apply to the standard interface. Details about the standard interface are found in both the Standard Interface standalone document and the Operations Guide.

These changes include:

- A new standard interface for Merchandise Hierarchy Attributes
- Changes to the Offers standard interface
- Changes to the Transaction Log standard interface
- Changes to the Promotions standard interface

### Merchandise Hierarchy Attributes Standard Interface

The MH Attributes standard interface provides information about merchandise attributes at various levels in the MH, principally lot/color/line/sku. This information is used to provide context for merchandise during planning and allocation.

**Table 1–1 Merchandise Hierarchy Attributes Specification (STAGE\_MH\_ATTRS\_TBL)**  
***MH Attributes Standard Interface Specification<sup>1</sup>***

Attribute Name	Attribute Description	Data Type	Maximum Length	Nullable Y/N
MERCHANDISE_KEY	Unique identifier for merchandise hierarchy	String	25	Y
MERCHANDISE_LEVEL	Level within the merchandise hierarchy	String	50	Y
BRAND	ID of the brand	String	50	Y
BRAND_DESC	Description of the brand	String	50	Y
VENDOR	Number of the supplier. Contains the manufacturer number when the supplier is set as a warehouse.	String	50	Y

**Table 1–1 (Cont.) MH Attributes Standard Interface Specification<sup>1</sup>**

<b>Attribute Name</b>	<b>Attribute Description</b>	<b>Data Type</b>	<b>Maximum Length</b>	<b>Nullable Y/N</b>
VENDOR_DESC	Description of the supplier	String	50	Y
ITEM_SIZE	Physical size	String	50	Y
CATEGORY	Category	String	50	Y
CATEGORY_DESC	Category description	String	50	Y
REPORT_CLIENT_ID	Client ID associated with report	String	50	Y
START_DT	Beginning of plan	Date in format YYYY-MM-DD	10	Y
FIRST_CREATE_DT	Date Merchandise first introduced	Date in format YYYY-MM-DD	10	Y
LAST_MODIFIED_DT	Time stamp of last modification	Date in format YYYY-MM-DD	10	Y
PROD_LEVEL	Product level	Integer	32	Y
COST	Wholesale cost	Decimal	22,2	Y
RETAIL	Retail price	Decimal	22,2	Y
PACK_SIZE	Pack size (inner)	Integer	22	Y
SIZE_RANGE_DESC	Description of size range	String	50	Y
DISP_CODE	Disposition code	String	2	Y
PURCH_TYPE	Basic (B); Fashion (F); Key (K)	String	1	Y
GRP_IN	Group indicator	String	1	Y
PROD_TYPE	Product type	String	30	Y
BRAND_NAME	Brand name	String	50	Y
CNTL_RKL	Control RKL	String	2	Y
COLL_ID	ID of collection	Integer	6	Y
COLL_NAME	Name of collection	String	30	Y
MSTR_COLL_IND	Master collection indicator	String	1	Y
ORIG_IND	Origin indicator (Domestic/Import)	String	1	Y
WEIGHT	Weight	Decimal	7,2	Y
COLOR_CNT	Number of colors per style	Integer	2	Y
SIZE_GRP_DESC	Description of size group	String	5	Y
LINE_PCT	Line percent	Integer	3	Y
OOS_DATE	Season out-of-stock date	Date in format YYYY-MM-DD	10	Y
VENDOR_STYLE	Vendor style number	String	30	Y

**Table 1–1 (Cont.) MH Attributes Standard Interface Specification<sup>1</sup>**

Attribute Name	Attribute Description	Data Type	Maximum Length	Nullable Y/N
ALLOC_FLAG	Allocate flag (RAP)	String	1	Y
FIRST_EFF_DT	Not used	Date in format YYYY-MM-DD	10	Y
LAST_EFF_DT	Not used	Date in format YYYY-MM-DD	10	Y
BRAND_TYPE	Not used	String	1	Y
PROMO_EXCLUSION	Not used	String	1	Y
MERCHANDISE_SUBTYPE	Season code	String	20	Y
SIZE_RANGE_KEY	ID of size range	String	25	Y
SIZE_KEY	ID of size	String	25	Y
MERCHANDISE_FLOOR_SET	Subset of a season used to describe when an item is introduced to the floor	String	20	Y
COLOR_FAMILY	Color family	String	50	Y

<sup>1</sup> For Decimal, the requirement is a number of a certain defined length and with a certain number of decimal places. For example, (22,2) is a number that can be up to 22 digits long and that can have two digits after the decimal point.

### Offers Standard Interface

An additional attribute (TYPE\_ENUM) has been added to the Offers standard interface.

**Offers Specification (BEE\_OFFER)**  
**Table 1–2 Offers Standard Interface Specification**

Field Name	Field Description	Data Type	Maximum Length	Nullable Y/N
NAME	Display name for the offer.	String	40	N
INACTIVE	Activity flag. 0 = active. 1 = inactive.	Integer	1	N



**Table 1–2 (Cont.) Offers Standard Interface Specification**

Field Name	Field Description	Data Type	Maximum Length	Nullable Y/N
EXTERNAL_NAME	The ID for the offer that is meaningful to the client. Unique across all offers.	String	40	N
DESCRIPTION	An optional description of the offer.	String	1000	Y
BUSINESS_RULE_CLASS_NAME	Instance of what class to use in validation.	String	250	Y
TYPE_EXTERNAL_NAME	Name of user defined type.	String	40	N
MODEL_CODE	Bit identifier for offer. Must be power of 2 (e.g., 0, 1, 2, 4, 8...).	Integer	10	N
FORMAT	Output format for offer (e.g., to put \$ in front of number).	String	40	N
TYPE_ENUM	0=integer; 1=user defined; 2=decimal; 6=none.	Integer		N

### Transaction Log Standard Interface

An additional attribute (PROMO\_TXN\_CODE) has been added to the Transaction Log standard interface.

The product also supports an additional flag for the AD\_IND column. Clearance records should be assigned a value of 2.

Four attributes have been changed to Nullable.

Note that transaction log data is partitioned by week in the database. When data for an already-processed week arrives, it is merged into the existing partition. If a substantial (greater than 10 percent) reload is being processed, it may be faster to drop the corresponding partition and re-process the entire week again.

**Transaction Log Specification (BEE\_MB\_DETAIL)**  
**Table 1–3 Transaction Log Standard Interface Specification<sup>1</sup>**

Field Name	Field Description	Data Type	Maximum Length	Nullable Y/N
TXN_ID	Unique identifier for transaction.	String	50	N
TXN_DATE	Transaction date.	Date in format YYYY-MM-DD	10	N
LOC_CLIENT_LOAD_ID	ID for location where transaction occurred.	String	50	N
MERCH_CLIENT_LOAD_ID	ID of sold product.	String	50	N
UNIT_COST	Per-unit cost of sold product.	Decimal	15,4	Y
UNIT_NORMAL_PRICE	Per-unit non-promotional price of sold product.	Decimal	15,4	Y
UNITS_SOLD	The number of a given item that were purchased in the market basket.	Integer	9	Y
EXT_RETAIL_AMT	At-register price of product sold.	Decimal	15,4	Y
EXT_MARGIN_AMT	The amount that the price has been reduced if the item is on promotion for this type of item in the market basket.	Decimal	15,4	Y
AD_IND	Discount flag. 0 = none. 1 = on Ad (item was promoted). 2=clearance.	Integer	1	Y
PROMO_TXN_CODE	Optional field used to capture an offer code, coupon code, or other extended information.	String	100	Y

<sup>1</sup> For Decimal, the requirement is a number of a certain defined length and with a certain number of decimal places. For example, (22,2) is a number that can be up to 22 digits long and that can have two digits after the decimal point.

## Promotions Standard Interface

An additional attribute (EVENT\_EXTERNAL\_NAME) has been added to the Promotions standard interface.

### Promotions Specification (BEE\_PROMOTIONS)

**Table 1–4 Promotions Standard Interface Specification<sup>1</sup>**

Field Name	Field Description	Data Type	Maximum Length	Nullable Y/N
NAME	A display name for the promotion.	String	40	N
EXTERNAL_NAME	The ID for the promotion that is meaningful to the client. Unique across the promotion.	String	40	N
DESCRIPTION	An optional description of the promotion.	String	1000	Y
BEGIN_DATE	Start date of the promotion.	Date in format YYYY-MM-DD	10	N
END_DATE	End date of the promotion.	Date in format YYYY-MM-DD	10	N
TOTAL_COST	The total cost allocated to the promotion.	Decimal	15,4	Y
VEHICLE_EXTERNAL_NAME	The vehicle used when promoting items.	String	120	N
PAGES	The number of pages for the vehicle.	Integer	8	Y
CAMPAIGN_EXTERNAL_NAME	The name of the campaign used for the promotion.	String	120	N
EVENT_EXTERNAL_NAME	Allows grouping of promotions that belong to the same event (promotion versioning).	String		Y

<sup>1</sup> For Decimal, the requirement is a number of a certain defined length and with a certain number of decimal places. For example, (22,2) is a number that can be up to 22 digits long and that can have two digits after the decimal point.

## Store Sets

Store sets are not part of the standard interface data feed. To use store sets, you must install the sample dataset and then replace the sample store set data with customer-specific store set data. Control files and SQL statements are provided with Promote that are used to populate the appropriate database tables.

### Store Sets Specification

The Store Sets specification describes a client's store set configuration. No standard loader is currently available for this data feed; an example loader is provided with the product.

**Data Fields** Six fields describe a store set record.

- STORE\_SET\_NAME - the name of the store set.

- STORE\_SET\_DESC - the description of the store set.
- INACTIVE - the inactivity flag. 1 = Active. 0 = Inactive.
- STORE\_SET\_TYPE - 0
- FIRST\_EFF\_DT - the date when the store set becomes active. The mask is YYYY-MM-DD.
- LAST\_MODIFIED\_DATE - the date when the record was last modified. The mask is YYYY-MM-DD.

**An Example** The following table shows sample data for a store set record.

**Table 1–5 Sample Store Set Data**

Store Set Name	Store Set Desc	Inactive	Store Set Type	First Eff Date	Last Modified Date
Default	System default store set	1	0	2006-02-14	2006-02-14

#### Store Set Specification

**Table 1–6 Store Set Specification**

Attribute	Attribute Description	Data Type	Maximum Length	Nullable Y/N
STORE_SET_NAME	Store set name.	String		N
STORE_SET_DESC	Store set description.	String		N
INACTIVE	Inactivity flag. 1=active. 0=inactive.	Integer		N
STORE_SET_TYPE		Integer		N
FIRST_EFF_DT	Date store becomes active.	Date in format YYYY-MM-DD	10	N
LAST_MODIFIED_DATE	Date record last modified.	Date in format YYYY-MM-DD	10	N

#### Store Subsets Specification

The Store Subsets specification describes a client's store subset configuration. No standard loader is currently available for this data feed; an example loader is provided with the product.

**Data Fields** Six fields describe a store subset record.

- STORE\_SUBSET\_NAME - the name of the store subset.
- STORE\_SUBSET\_DESC - the description of the store subset.
- STORE\_SET\_NAME - the name of the store set that the subset is a member of.
- INACTIVE - the inactivity flag. 1 = Active. 0 = Inactive.
- ORDER\_SEQ - the position of the subset.

- **REMAIN\_FLAG** - indicates whether the subset is a remaining subset. A remaining subset is a special type of subset. Only one is allowed, and it contains all unassigned subsets. 0 = false. 1 = true.

**An Example** The following table shows sample data for a store subset record.

**Table 1–7 Sample Store Subset Data**

Store Subset Name	Store Subset Desc	Store Set Name	Inactive	Order Sequence	Remain Flag
Northeast	Northeast subset	Default	1	0	0

#### Store Subset Specification

**Table 1–8 Store Subset Specification**

Attribute	Attribute Description	Data Type	Maximum Length	Nullable Y/N
STORE_SUBSET_NAME	Store subset name.	String		N
STORE_SUBSET_DESC	Store subset description.	String		N
STORE_SET_NAME	Store set name.	String		N
INACTIVE	Inactivity flag. 1=active. 0=inactive.	Integer		N
ORDER_SEQ	Position of subset.	Integer		N
REMAIN_FLAG	Remaining subset? 1=true. 0=false.	Integer		N

#### Store Subset Assignment Specification

The Store Subset Assignment specification describes a client's store subset assignment configuration. No standard loader is currently available for this data feed; an example loader is provided with the product.

**Data Fields** Four fields describe a store subset assignment record.

- **LOC\_CLIENT\_LOAD\_ID** - the external ID of the location.
- **LEVEL\_DESC** - the external ID of the location level.
- **STORE\_SUBSET\_NAME** - the name of the store subset.
- **STORE\_SET\_NAME** - the name of the store set that the subset is a member of.

**An Example** The following table shows sample data for a store subset record.

**Table 1–9 Sample Store Subset Data**

Loc Client Load ID	Level Description	Store Subset Name	Store Set Name
5169	Store	Central	Default

## Store Subset Specification

**Table 1–10 Store Subset Specification**

Attribute	Attribute Description	Data Type	Maximum Length	Nullable Y/N
LOC_CLIENT_LOAD_ID	Location external ID.	Integer		N
LEVEL_DESC	Location level external ID.	Integer		N
STORE_SUBSET_NAME	Store subset name.	String		N
STORE_SET_NAME	Store set name.	String		N

### Store Set Load Procedures

The Store Set target tables are:

- STORE\_SETS\_TBL
- STORE\_SUBSETS\_TBL
- STORE\_SUBSET\_ASSIGNMENT\_TBL
- SUBSET\_STORE\_MAPS\_TBL

The following example is provided as part of the KSInc dataset:

CDImage/pce/pce/sample/storesets

or

<installdir>/modules/pce/sample/storesets:

seed/controlfile : control files for SqlLoader

seed/data/files : sample files

database/transform : loading SQL

## Standard Load Changes

The standard load procedures have been updated to reflect the new standard interface. Changes have also been made to the load procedure order.

Replace com.profitlogic.db.beech.MigrateMerchAttrs with  
com.profitlogic.db.birch.LoadMerchandiseAttributes

Add pr\_load\_promo\_mb\_summary  
com.profitlogic.db.walnut.LoadItemLocationSeasonalityElastPrice after  
com.profitlogic.db.beech.LoadMbDetail

## Installation Guide Changes

The following changes have been made to the installation procedure.

### install.properties

Note the following regarding the install.properties file:

Set host.list to the list (comma-separated) of nodes in a cluster to copy the installed files over, if installing in a clustered environment.

## Installing the MicroStrategy Web Interface into OAS

Complete the following steps to install the MS web interface into OAS:

1. Deploy a new web application in OAS. Use the Option "Archive is already present" and add the full path to Promote's MS war file.
2. On the next screen, when choosing a context root, use ms\_web.
3. In <installdir>/config/promote/promote.xml, configure the server parameters to point to the correct MS web. To do this, edit the <connect> section of the xml file.
4. Edit <OAS installdir>/j2ee/home/application-deployment/ms\_web/orion-application.xml. Add the following line after the last </orion-application>:  

```
<security-role-mapping name="admin">
  <group name="oc4j-administrators"/>
</security-role-mapping>
```
5. To verify that the MS web component can see the MS server:  
 Log into <host>:<port>/ms\_web/servlet/mstrWebAdmin as oc4jadmin and connect to the MS Intelligence server or make sure it is already connected.

## Database Configuration Changes

The following changes apply to the database configuration, documented in the Configuration Guide.

### Summary Configurations

Several configurations must be included in ASH\_CP\_TBL. These configurations specify the level of aggregation in the merchandise hierarchy that Promote and the RDM require.

INTERSECT_NAME	MERCHANDISE_LEVEL	LOCATION_LEVEL	Description
PROMOTE_TAE	SKU	DISTRICT	Identifies the Level at which TAE output is produced.
PROMOTE_DETAIL	SKU	STORE	Identifies the Level at which POS data is expected. It is assumed to be the STORE level.
PROMOTE_SUMMARY_1	CLASS	STORE	Identifies the Merchandise and Location levels of the first level of the summary.
PROMOTE_SUMMARY_2	DEPARTMENT	STORE	Identifies the Merchandise and Location levels of the second level of the summary.
PROMOTE_SUMMARY_3	DIVISION	STORE	Identifies the Merchandise and Location levels of the third level of the summary.
PROMOTE_AFFINITY_LEVEL	CLASS	CHAIN	The level of calculation of the APE summary.
PROMOTE_APC	CLASS	REGION	The level of calculation of the APC summary.

The following non-Promote entries are required for compatibility reasons:

<b>INTERSECT_NAME</b>	<b>MERCHANDISE_LEVEL</b>	<b>LOCATION_LEVEL</b>
OPTIMIZATION	SKU	STORE
WORKSHEET	DEPARTMENT	CHAIN
SALES	SKU	CHAIN
CLUSTER	CHAIN	CHAIN
DEFAULTLEVEL	CHAIN	CHAIN

The Cust\_Parameter\_Levels PL/SQL package provides an interface to the following values. For examples, see the next section (IR Views).

- getMerchandiseLevelDesc(in\_intersect\_name)
- getMerchandiseLevelSqc(in\_intersect\_name)
- getLocationLevelDesc(in\_intersect\_name)
- getLocationLevelSqc(in\_intersect\_name)

### IR Views

The following views must be modified according to the level of summary needed. The view creation scripts are located in <installdir>/modules/Database/ROSEWOODSchema/install/oracle/ROSEWOODSchema/dictionary/views\_ir. Example (found in the supplied sample KSInc dataset) are located in <installdir>/modules/pce/sample/ir\_views/oracle.

Update the views using the following guidelines:

ir\_pr\_merch\_summary\_X\_vw. These views map each merchandise summary level to its SKUs. For example:

- CREATE OR REPLACE VIEW ir\_pr\_merch\_summary\_3\_vw AS SELECT hierarchy3\_pid parent\_pid, merchandise\_id, mod(merchandise\_id,10) seas\_cd FROM merchandise\_tbl WHERE level\_sqc = 6
- CREATE OR REPLACE VIEW ir\_pr\_merch\_summary\_4\_vw AS SELECT hierarchy4\_pid parent\_pid, merchandise\_id, mod(merchandise\_id,10) seas\_cd FROM merchandise\_tbl WHERE level\_sqc = 6
- CREATE OR REPLACE VIEW ir\_pr\_merch\_summary\_5\_vw AS SELECT hierarchy5\_pid parent\_pid, merchandise\_id, mod(merchandise\_id,10) seas\_cd FROM merchandise\_tbl WHERE level\_sqc = 6

ir\_pr\_location\_summary\_X\_vw. These views map each location summary level to its SKUs. For example:

- CREATE OR REPLACE VIEW ir\_pr\_location\_summary\_1\_vw AS SELECT hierarchy1\_lid, location\_id FROM location\_tbl WHERE level\_sqc = Cust\_Parameter\_Levels.getLocationLevelSqc('PROMOTE\_ANALYSIS')
- CREATE OR REPLACE VIEW ir\_pr\_location\_summary\_7\_vw AS SELECT hierarchy7\_lid parent\_lid, location\_id FROM location\_tbl WHERE level\_sqc = Cust\_Parameter\_Levels.getLocationLevelSqc('PROMOTE\_ANALYSIS')



## CLIENT\_HIERARCHY\_ACTIONS\_TBL

The Client\_Hierarchy\_Actions\_Tbl must be modified according to the levels of inventory aggregation required.

Action Type	Action Name	Action Level Name	Action Level	Hierarchy Type	Description
SUITE	STORE	STORE	0	LOCATION	Identifies the level in the location hierarchy corresponding to physical STORE
PROMOTE	HIST_AGG_MERCH_LEVEL_0	HIST_AGG_LEVEL_0	0	MERCHANDISE	Identifies the Lowest Merchandise Level at which History should be persisted
PROMOTE	HIST_AGG_LOC_LEVEL_0	HIST_AGG_LEVEL_0	0	LOCATION	Identifies the Lowest Location Level at which History should be persisted

## Script Changes

The following scripts are documented in the Operations Guide.

### arm.sh

- startdate sets the start-of-date range for arm to work in
- enddate sets the end-of-date range for arm to work in

### pl\_create\_merch\_loc\_seas\_elast.sh

The script usage has changed to:

```
pl_create_merch_loc_seas_elast.sh <configroot> <paramfile> [<exec_mode>]
```

where exec\_mode is either 0 (incremental) or 1 (rebuild). The default is 1.

## Fixed Bugs

The following bugs have been fixed in this release.

**20837** - The what-if window currently supports scenarios that included alternate vehicles (vehicles different than the primary one on the promotion). Currently, choosing alternate vehicles will result in a failed forecast. Users should use the "what-if" functionality on the primary vehicle only (e.g. circular).

**21809** - The Configuration Guide describes a setting that lets the analyst change the analysis levels for the Promote analytics. This feature is not operational. The workaround is to limit the location and merchandise hierarchies such that their lowest levels match the desired level of analysis.

**21881** - All promotion templates should have assigned vehicle templates.

**21921** - When adding tasks to phases without first selecting a phase an issue exists which orders the new tasks incorrectly. The workaround for this issue is to first select the desired phase, then use the add button to add tasks to that phase.

**21922** - Drag and drop does not work correctly on the list view of the vehicle designer. It performs correctly when looking at thumbnails.

**21946** - The application does not currently support the Store Sets UI. To work around this issue, administrators should edit store sets using the data feed as described in the Operations Guide.

**21959** - An issue exists where the Offer dialog can be dismissed (using the Ok button) even though the offer name is not provided. Instead, the error dialog appears after the offer dialog is dismissed, not before. To clear the error, the user needs to open the offer dialog, and enter the name.

**21975** - When creating a promotion or other type of calendar event, the calendar itself (list or graphical view) may go blank in some cases if errors are encountered when saving the event. If the calendar data does not appear after correcting the error, simply move to the next month and then back again in order to refresh the data.

## Known Issues

The following are known issues with this release:

**20838** - On the what-if screen it is possible to run a scenario with a custom position, rather than the default. When doing this and using the Apply function, the user is notified that their changes were applied. In actuality, the custom position isn't applied although other variables, such as the offer type, are.

**21910** - There is a known issue which prevents generating forecasts for promotions which end on the last day of the predicted baseline database. To work around this issue, create predicted baselines for all products at least one week past the last promotion to be planned.

**22273** - The forecast status does not display correctly in certain situations. Forecast numbers, however, are still correct.

**22289** - Sorting on date columns in the ToDo lists (My Approvals) is not working properly.

**22428** - There is known issue with page templates where selecting a position causes the position link to not work. To use the position links, a user should not select a specific position.

**22449** - When a user cuts and pasts a position from one page to another the position is not removed from the source page. To remove it, the user should save, close, and then reopen the document.