Oracle® Retail Pricing Cloud Service

Security Guide – volume 2

Release 16.0.030

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Value-Added Reseller (VAR) Language

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Oracle Retail Pricing Cloud Service Security Guide - volume 2, Release 16.0.030

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Please give your name, address, electronic mail address, and telephone number (optional).

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Preface

This document serves as a guide for administrators, developers, and system integrators who securely administer, customize, and integrate Oracle Retail Pricing Cloud Service application.

Audience

This document is intended for administrators, developers, and system integrators who perform the following functions:

- Document specific security features and configuration details for the above mentioned product, in order to facilitate and support the secure operation of the Oracle Retail Product and any external compliance standards.

- Guide administrators, developers, and system integrators on secure product implementation, integration, and administration.

We assume that the readers have general knowledge of administering the underlying technologies and the application.

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- Functional and technical description of the problem (include business impact)

- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Review Patch Documentation

When you install the application for the first time, you install either a base release (for example, 16.0) or a later patch release (for example, 16.0.030). If you are installing the base release and additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

Improved Process for Oracle Retail Documentation Corrections

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

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

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

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

If a more recent version of a document is available, that version supersedes all previous versions.

Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site:

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

(Data Model documents are not available through Oracle Technology Network. You can obtain these documents through My Oracle Support.)

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.

Convention	Meaning
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Introduction

This document discusses the aspects of security that were mentioned in the *Oracle Retail Merchandising Cloud Services Suite Security Guide volume 1* and describes them in more detail as well as outlines how they are used in Pricing Cloud Service specifically.

Application Functional Security

Pricing Cloud Service functional security supports a role-based, declarative model where resources are protected by roles that are assigned to users. Roles are associated to a logical grouping of duties, which in turn are associated to a set of privileges which provide different access rights. In this manner, an application role becomes the container that grants permissions to its members to access the application tasks, screens and the functionalities within.

Roles

Roles, also referred to as Job Roles, align with titles or jobs within a retailer's organization, such as a Pricing Analyst or Promotion Manager. Roles are used to classify users based on job responsibilities and actions to be performed in the application. One or more duties as well as individual privileges, if desired, can be assigned to roles. When a user logs into the application, based on the roles assigned to the user, the system determines which privileges have been granted to the user and the system features are enabled accordingly.

Duties

Duties are tasks one must perform in the context of their job. Duties in the Pricing Cloud Service are logical groupings of privileges or other duties that grant users access to a set of functionally related tasks within the application.

Privileges

Privileges are used to grant permission to access links into workflows, screens, actions and in some cases specific fields within the application. Privileges that grant access to related functionality are grouped together into duties that permit a user to perform a complete task to fulfill responsibilities within the context of their job.

Data Filtering

Oracle Retail Merchandising Cloud Service suite offers an optional layer of data filtering in the application user interface, which limits the data end users see by levels in the merchandise and organizational hierarchies. Whether or not this is used in your

environment is controlled by a system option in the Oracle Retail Merchandising Foundation Cloud Service, which is also where all the configuration for this functionality is managed.

This data level filtering is configured by assigning users to a data security group. The group then is assigned to levels of the merchandise and organizational hierarchy. All users within a group will have similar access to a particular section of the merchandise or organizational hierarchy. For example, a group may be defined for a particular division, giving users across application job roles, access to the departments, classes, subclasses, and items in that division.

Within the Pricing Cloud Service, there is not any additional configuration that is needed. However, all Pricing users will need to be included in the user/group relationships configured in Merchandising so that they are able to access the data needed to perform their jobs. With data filtering enabled, users will only be able to add items to a price event that is part of the merchandise hierarchy to which they have been given data filtering access. Likewise, users will only be able to add locations (or zones containing locations) to a price event that are part of the organizational hierarchy to which they have been given data filtering access.

When viewing or maintaining price events, users will only be able to view and maintain existing price change groups and clearance groups that have at least one item or location to which they have access. For promotions, users will only be able to view and maintain existing promotions if they have access to at least one item or location on the offers contained in the promotion. This is controlled through the search screens for the respective price event types. It is important to note that if a user has data filtering access to at least one item or location on one price event within a price change group, clearance group or promotion, then the user will have the ability to view and modify the entire group or promotion. If it is desired to not allow users to see price events for items or locations for which they do not have data filtering access, price change groups, clearance groups and promotions should be created in such a way that users have data filtering access to all items and locations within a given group or promotion.

To implement data filtering, see Chapter 3, Data Security/Filtering in the *Oracle Retail Merchandising Cloud Services Administration Guide*.

2

Roles

Roles are used to classify users based on job responsibilities and actions to be performed in the application. Using roles, a user's access can be restricted to specific areas or functions within the system. Users must be associated with at least one job role in order to access the application and may be associated with several roles if desired.

For example, within the Pricing Cloud Service, a user with a business role of Promotion Planner may be able to perform only the tasks associated to the provided Promotion Planner job role profile such as, creating, modifying, and approving promotion offers. They might additionally have view-only access to price change and clearance screens for visibility to other changes in price. Whereas a Pricing Manager might have access to the set of tasks that are related to the maintenance, approval, and emergency maintenance of price changes and clearances. While, an Administrator would require access to all areas.
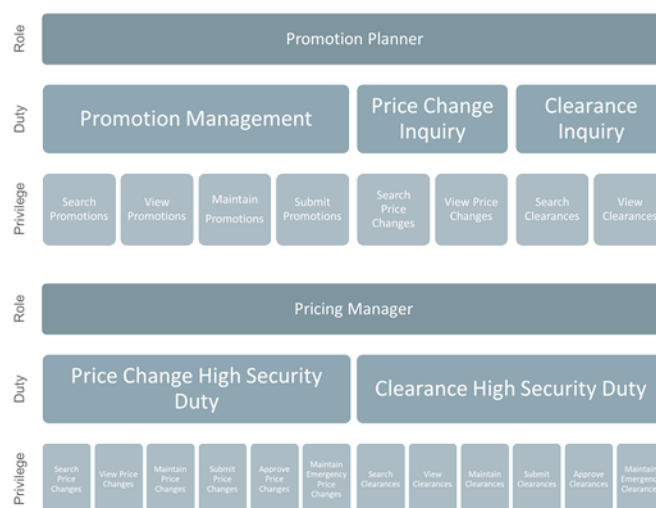
Roles Provided at Initial Setup

A default security configuration is provided with each application during installation and is intended to be used as a starting point as you define the roles that align for your business and users. The provided roles can be modified by adding or removing duties and/or individual privileges to adjust the access granted to the role, or the roles can be deleted completely. Additional roles can be created as well and can be mapped to the desired duties or privileges. Administrator users can change the mappings of roles, duties and privileges in the Pricing Cloud Service's User Interface. Details about how to manage these application security policies are available in Chapter 2, Manage

Security Policies in the *Oracle Retail Merchandising Cloud Service Suite Administration Guide*.

There are six roles provided in the default security configuration:

- **Pricing Analyst** – The Pricing Analyst will typically work in the buying area for a department and be a direct report of the Pricing Manager. The primary job of the Pricing Analyst is to determine the pricing strategy for an area of the business (usually one or more departments), by combining the objectives set forth by the overall buying group (i.e. increase revenues, increase profits, decrease inventory) with historical and predictive analytics data. The Pricing Analyst will spend a great deal of time reviewing analytical data to determine past trends and predict future trends in order help determine the best way to meet department pricing objectives going forward. This is also the role with the primary responsibility to create regular and clearance price changes, as well as department specific promotions. The decisions made by the Pricing Analyst are approved by the Pricing Manager.

- **Pricing Manager** – The Pricing Manager typically works as part of the buying group for one or more departments. Besides all of the typical management duties involved with having direct reports, the Pricing Manager has the responsibility of making sure the company objectives are reflected in the pricing policies implemented by the Pricing Analyst. It is the job of the Pricing Manager to approve all pricing actions implemented in the system.

- **Promotion Planner** – Usually a member of the marketing department, Promotion Planners are responsible for managing the implementation of promotional pricing and conditional offers. This role is typically managing promotions for a subset of the merchandise hierarchy; depending on size this could be either Department or Division level. Additional responsibilities include:

  - Ensuring the creation and testing of all promotions is executed correctly at the Stores and Online channel.

  - Working closely with the pricing analyst and manager to make sure the objectives of the marketing department are met.

- **Promotion Manager** – Responsible for managing and approving the work of Promotional Planners; this role is more responsible for the corporate promotional strategy for Stores and the Online channel.

- **Application Administrator** – The Application Administrator is a part of a retailer's IT department responsible for maintaining and configuring the Pricing application. Primary responsibilities include:

  - Maintain daily operations, such as daily batch processes of the application.

  - Supporting end-users and providing the first level of support for the application.

  - Applying patches and upgrades to the application on a regular basis.

  - Troubleshooting and resolving product issues.

  - Setting up users and security privileges for the application.

- **Data Steward**–- The Pricing Data Steward is responsible for the management of foundational data elements for the pricing activities, such as reason codes, zone structures, and rounding rules. This includes ensuring the completeness and accuracy of the data, as well as development and enforcement of standard processes.

3

Duties and Privileges

Privileges grant access to specific tasks, links, and actions within the application. The access controlled by a particular privilege is fixed and can only be changed by an enhancement to the application. You can control the functions and features to which a user has access by grouping the desired privileges into duties, and assigning the duties to job roles which can then be associated to one or more users

Duties Provided at Initial Setup

As part of this default security configuration, the system privileges have been logically grouped into duties and the duties have been assigned to an initial set of job roles. The provided duties can be modified or deleted and new duties created. Administrator users can change the mappings of roles, duties and privileges in the Pricing Cloud Service's User Interface. Details about how to manage these application security policies are available in Chapter 2, Manage Security Policies in the *Merchandising Cloud Services Administration Guide*.

Duties provided in the default security configuration follow a standard naming convention to indicate the type of privileges grouped within and the level of access provided. In the Pricing Cloud Service, the provided duties are one of the following duty types:

- **Inquiry** – An inquiry duty will provide the user the ability to search for and view the associated entity. The provided inquiry duties are used when it is desirable for a user to have visibility to an area, but no option to create or update any information. Inquiry duties are assigned to viewers of an area.

- **Management** – A management duty provides the user the ability to maintain the associated entity. The provided management duties are used when it is desirable for a user to have the ability create, update, delete, and, typically, submit information. Management duties always contain the inquiry duty for the same entity. For example, the Price Change Management Duty contains the Price Change Inquiry Duty along with the additional Maintain Price Changes Privilege and Submit Price Changes Privilege, because in order for a user to maintain an entity they must also have the ability to search for and view the entity. Management duties are assigned to contributors of an area.

- **Approval** – An approval duty is meant for users with the authority to review and approve or reject submissions. Approval duties always contain the management duty for the same entity. For example, the Price Change Approval Duty contains the Price Change Management Duty along with the additional Approve Price Changes Privilege, because in order for a user to approve an entity they must also have the ability to search for, view, and maintain the entity. Approval duties are assigned to reviewers of an area.

- **High Security** – A high security duty is used for tasks that are typically only performed by a smaller set of users, such as the creation of emergency price changes. High Security duties always contain the approval duty for the same entity. For example, the Price Change High Security Duty contains the Price Change Approval Duty along with the additional Maintain Emergency Price Changes Privilege, because in order for a user to perform the high security actions on an entity they must also have the ability to search for, view, maintain and approve the entity. High security duties are assigned to administrators or mangers of an area.

There are a handful of privileges used within the Pricing Cloud Service that do not have a hierarchical set of duties with increasing levels of access, as described by the duty types above. Rather these duties simply grant access to a single area, such as a dashboard, or they grant access to particular information across several functional areas. Therefore access is either granted or not, there are no access levels. These duties may be classified as management or inquiry duties, depending on if the user can maintain the related data or if it's view only. For example:

- **Dashboard Inquiry Duties** – Grants access to view a given dashboard. Access to each report within the dashboard is controlled separate privileges based on the functional area of the report. For example, the Pricing Analyst Dashboard contains two reports, the Price Changes Pending Approval report and the Clearances Pending Approval report. A user must have the Approve Price Changes Privilege to access the Price Changes Pending Approval report and likewise must have the Approve Clearances Privilege to access the Clearances Pending Approval report. However, in order to see either of these reports the user must also have the Pricing Analyst Dashboard Inquiry Duty and its single View Pricing Analyst Dashboard Privilege in order to have access to the Pricing Analyst Dashboard.

- **Units of Measure Management Duty** – Grants access to view and maintain units of measure information throughout the price change, clearance and promotion workflows. The UOMs within Price Events Management Duty should only be assigned to users that work with merchandise which is purchase and/or sold in units of measure other than eaches. The default security configuration has this duty assigned to all provided roles.

- **Differentiator Management Duty** – Grants access to view differentiator information throughout the price change, clearance, and promotion workflows and the ability to manage parent/diff level price events in each of those areas. The Diffs within Price Events Management Duty should only be assigned to users that work with items that use differentiators in their definitions, such as fashion merchandise. The default security configuration has this duty assigned to all provided roles.

- **Batch Management Duty** – Grants access to execute batch programs. The default security configuration has this duty assigned to the Application Administrator role.

- **Administrator Console Duty** – Grants access to the Settings menu, including the Security folder where security roles, duties and privileges are managed. The default security configuration has this duty assigned to the Application Administrator role.

When determining access for a given role in your organization, start by categorizing each role with a duty type for each functional area in the application. For example, a Pricing Manager may be a viewer of promotions and a contributor of price zone definitions. They may have no access to system options and may have high security control over price changes and clearances.

The job roles provided in the default security configuration have the following duties assigned to control their levels of access:

Table 3–1   Pricing Analyst Duties

Role	Functional Area	Access Level	Duty Assigned
Pricing Analyst	Price Changes	Approval	Price Change Approval Duty
	Clearance	Approval	Clearance Approval Duty
	Promotions	Inquiry	Promotion Inquiry Duty
	Data Loading Status	Inquiry	Data Loading Status Inquiry Duty
	Pricing Analyst Dashboard	Access Granted	Pricing Analyst Dashboard Inquiry Duty
	Promotion Planner Dashboard	No Access	
	Units of Measure	Access Granted	UOMs within Price Events Management Duty
	Differentiators	Access Granted	Diffs within Price Events Management Duty
	Price Zones	Management	Price Zone Management Duty
	Rounding Rules	Inquiry	Rounding Rule Inquiry Duty
	System Options	No Access	
	Batch Administration	No Access	
	Application Settings	No Access	

Table 3–2   Pricing Manager Duties

Role	Functional Area	Access Level	Duty Assigned
Pricing Manager	Price Changes	High Security	Price Change High Security Duty
	Clearance	High Security	Clearance High Security Duty
	Promotions	Inquiry	Promotion Inquiry Duty
	Data Loading Status	Inquiry	Data Loading Status Inquiry Duty
	Pricing Analyst Dashboard	No Access	
	Promotion Planner Dashboard	No Access	
	Units of Measure	Access Granted	UOMs within Price Events Management Duty
	Differentiators	Access Granted	Diffs within Price Events Management Duty
	Price Zones	Management	Price Zone Management Duty
	Rounding Rules	Inquiry	Rounding Rule Inquiry Duty
	System Options	No Access	
	Batch Administration	No Access	
	Application Settings	No Access	

Table 3–3   Promotion Planner Duties

Role	Functional Area	Access Level	Duty Assigned
Promotion Planner	Price Changes	Inquiry	Price Change Inquiry Duty
	Clearance	Inquiry	Clearance Inquiry Duty
	Promotions	Approval	Promotion Approval Duty
	Data Loading Status	Inquiry	Data Loading Status Inquiry Duty
	Pricing Analyst Dashboard	No Access	
	Promotion Planner Dashboard	Access Granted	Promotion Planner Dashboard Inquiry Duty
	Units of Measure	Access Granted	UOMs within Price Events Management Duty
	Differentiators	Access Granted	Diffs within Price Events Management Duty
	Price Zones	No Access	
	Rounding Rules	No Access	
	System Options	No Access	
	Batch Administration	No Access	
	Application Settings	No Access	

Table 3–4   Promotion Manager Duties

Role	Functional Area	Access Level	Duty Assigned
Promotion Manager	Price Changes	Inquiry	Price Change Inquiry Duty
	Clearance	Inquiry	Clearance Inquiry Duty
	Promotions	High Security	Promotion High Security Duty
	Data Loading Status	Inquiry	Data Loading Status Inquiry Duty
	Pricing Analyst Dashboard	No Access	
	Promotion Planner Dashboard	Access Granted	Promotion Planner Dashboard Inquiry Duty
	Units of Measure	Access Granted	UOMs within Price Events Management Duty
	Differentiators	Access Granted	Diffs within Price Events Management Duty
	Price Zones	No Access	
	Rounding Rules	No Access	
	System Options	No Access	
	Batch Administration	No Access	
	Application Settings	No Access	

Table 3–5   Application Administrator Duties

Role	Functional Area	Access Level	Duty Assigned
Application Administrator	Price Changes	High Security	Price Change High Security Duty
	Clearance	High Security	Clearance High Security Duty
	Promotions	High Security	Promotion High Security Duty
	Data Loading Status	Management	Data Loading Status Management Duty
	Pricing Analyst Dashboard	Access Granted	Pricing Analyst Dashboard Inquiry Duty
	Promotion Planner Dashboard	Access Granted	Promotion Planner Dashboard Inquiry Duty
	Units of Measure	Access Granted	UOMs within Price Events Management Duty
	Differentiators	Access Granted	Diffs within Price Events Management Duty
	Price Zones	Management	Price Zone Management Duty
	Rounding Rules	Management	Rounding Rule Management Duty
	System Options	High Security	System Admin Management Duty
	Batch Administration	Access Granted	Batch Management Duty
	Application Settings	Access Granted	

Table 3–6   Data Steward Duties

Role	Functional Area	Access Level	Duty Assigned
Data Steward	Price Changes	High Security	Price Change High Security Duty
	Clearance	High Security	Clearance High Security Duty
	Promotions	High Security	Promotion High Security Duty
	Data Loading Status	Management	Data Loading Status Inquiry Duty
	Pricing Analyst Dashboard	Access Granted	Pricing Analyst Dashboard Inquiry Duty
	Promotion Planner Dashboard	Access Granted	Promotion Planner Dashboard Inquiry Duty
	Units of Measure	Access Granted	UOMs within Price Events Management Duty
	Differentiators	Access Granted	Diffs within Price Events Management Duty
	Price Zones	Management	Price Zone Management Duty
	Rounding Rules	Management	Rounding Rule Management Duty
	System Options	Management	Application Admin Management Duty
	Batch Administration	Management	Batch Management Duty
	Application Settings	No Access	

Privileges

For each functional area in the application there is an associated set of privileges. The privileges build upon each other. For example, in order to be able to approve a price change, the user must also be able to search for, view, create, maintain and submit price changes. Therefore, the Price Change Approval Duty contains the Search Price Changes, View Price Changes, Maintain Price Changes, Submit Price Changes and Approve Price Changes privileges.

Here are all of the privileges available in Pricing Cloud Services, along with the duty type to which they are assigned in the default configuration:

Table 3–7   Pricing Cloud Service Privileges

Functional Area	Privilege	Inquiry	Management	Approval	High Security	Access Granted/ No Access	Privilege Description
Price Changes	Search Price Changes Priv	x	x	x	x	n/a	A privilege for searching for price changes via the Price Change Group Search screen.
Price Changes	View Price Changes Priv	x	x	x	x	n/a	A privilege for viewing price changes and associated conflicts via the Price Change Group and Conflicts screens, or via the price change spreadsheet download. Also grants the ability to download blank price change spreadsheet templates. When granted along with the View Data Loading Status Priv the user will have access to the Data Loading Status screen.
Price Changes	Maintain Price Changes Priv		x	x	x	n/a	A privilege for creating and maintaining price changes via the Price Change Group screen and via Quick Create, this includes the ability to ignore conflicts associated with a given price change. Also grants the ability to create and maintain price changes via price change upload (spreadsheet, web service and bulk upload).
Price Changes	Submit Price Changes Priv		x	x	x	n/a	A privilege for submitting price changes via the Price Change Group screen, Quick Create or via price change upload (spreadsheet, web service and bulk upload).

Table 3–7   (Cont.) Pricing Cloud Service Privileges

Functional Area	Privilege	Duty Types					Privilege Description
		Inquiry	Management	Approval	High Security	Access Granted / No Access	
Price Changes	Approve Price Changes Priv			x	x	n/a	A privilege for approving or rejecting price changes via the Price Change Group screen, Quick Create, or via price change upload (spreadsheet, web service and bulk upload), and grants access to the Price Changes Pending Approval dashboard report for users with access to the dashboard.
Price Changes	Maintain Emergency Price Changes Priv				x	n/a	A privilege for creating emergency price changes, and creating a price change that will resend the current price to the point of sale using the Reset POS Price change type via the Price Change Group screen, Quick Create or via price change upload (spreadsheet, web service and bulk upload).
Promotions	Search Promotions Priv	x	x	x	x	n/a	A privilege for searching for promotion offers via the Promotion Search screen.
Promotions	View Promotions Priv	x	x	x	x	n/a	A privilege for viewing promotion offers via the Promotion screen.
Promotions	Maintain Promotions Priv		x	x	x	n/a	A privilege for creating and maintaining promotion offers via the Promotion screen.
Promotions	Submit Promotions Priv		x	x	x	n/a	A privilege for submitting promotion offers via the Promotion screen.
Promotions	Approve Promotions Priv			x	x	n/a	A privilege for approving or rejecting promotion offers via the Promotion screen.
Promotions	Cancel Promotions Priv				x	n/a	A privilege for canceling promotion offers, canceling items from offers and canceling locations from offers via the Promotion screen.
Promotions	Maintain Emergency Promotions Priv				x	n/a	A privilege for creating emergency promotions via the Promotion screen.

Table 3–7   (Cont.) Pricing Cloud Service Privileges

Functional Area	Privilege	Duty Types					Privilege Description
		Inquiry	Management	Approval	High Security	Access Granted / No Access	
Data Loading Status	View Data Loading Status Priv	x	x	n/a	n/a	n/a	This privilege provides view access to the Data Loading Status screen to view the status of data loading processes.
Data Loading Status	Maintain Data Loading Status Priv		x	n/a	n/a	n/a	This privilege provides edit access to the Data Loading Status screen to maintain the status of data loading processes.
Pricing Analyst Dashboard	View Pricing Analyst Dashboard Priv	x	n/a	n/a	n/a	n/a	This privilege gives the user access to the Pricing Analyst Dashboard.
Promotion Planner Dashboard	View Promotion Planner Dashboard Priv	x	n/a	n/a	n/a	n/a	This privilege gives the user access to the Promotion Planner Dashboard.
Units of Measure	Maintain Grocery Attributes Priv (Merchandising Priv)	x	n/a	n/a	n/a	x	This privilege is used to determine whether or not unit of measure (UOM) fields are displayed to the user. There is a system level default for the UOM value on price changes and promotions. This default will still occur, but only users with this privilege will be able to see the defaulted value on a price change or promotion and/or update it as desired. In the Clearance Group screen this privilege will determine if the Selling UOM column is rendered or not. If all merchandise managed by a given user is sold in eaches, there would be no reason for a user to need to see the unit of measure fields because they will all contain the same value and therefore should not be granted this privilege.

Table 3–7   (Cont.) Pricing Cloud Service Privileges

Functional Area	Privilege	Duty Types					Privilege Description
		Inquiry	Management	Approval	High Security	Access Granted / No Access	
Differentiat ors	Use Diffs Priv (Merchandis ing Priv)	x	n/a	n/a	n/a	x	This privilege is used to determine whether or not to display differentiator related fields throughout the price event workflows. If all merchandise managed by a given user does not utilize differentiators, the differentiator fields can be hidden throughout the price event workflows by not granting this privilege to those users.
Price Zones	View Price Zones Priv	x	x	n/a	n/a	n/a	A privilege for viewing definitions of price zone groups via the Price Zone Groups screen, and price zones and price zone locations via the Price Zones screen, as well as initial price zone definitions via the Initial Price Zone Definition screen.
Price Zones	Maintain Price Zones Priv		x	n/a	n/a	n/a	A privilege for creating and maintaining definitions of price zone groups via the Price Zone Groups screen, and price zones and price zone locations via the Price Zones screen, as well as initial price zone definitions via the Initial Price Zone Definition screen.
Rounding Rules	View Rounding Rules Priv	x	x	n/a	n/a	n/a	A privilege for viewing rounding rule definitions via the Rounding Rules screen.
Rounding Rules	Maintain Rounding Rules Priv		x	n/a	n/a	n/a	A privilege for creating and maintaining rounding rule definitions via the Rounding Rules screen.
System Options	View Application Administrati on Priv	x	x	n/a	x	n/a	This privilege provides view access to the System Options screen.
System Options	Maintain Application Administrati on Priv		x	n/a	x	n/a	This privilege provides edit access to the System Options screen.

Table 3–7   (Cont.) Pricing Cloud Service Privileges

Functional Area	Privilege	Duty Types					Privilege Description
		Inquiry	Management	Approval	High Security	Access Granted / No Access	
System Options	Maintain System Administration Priv			n/a	x	n/a	This privilege allows the user to see and edit the options in the System Administration container on the System Options screen. This privilege is an additive privilege, it is assumed a user with this privilege will also have the Maintain Application Administration Priv, in order to access the System Options screen in edit mode.
Batch Administration	Execute Batch Set 1 Priv	n/a	n/a	n/a	n/a	x	This privilege allows the user to execute the following Pricing batch service processes: priceEventChunkCCEmergencyEventsExecution, priceEventExecution, and processNewItemLocation.
Batch Administration	Execute Batch Set 2 Priv	n/a	n/a	n/a	n/a	x	This privilege allows the user to execute the following Pricing batch service processes: promotionInduction, priceChangeInduction, clearanceInduction, itemReclassUpdate, and nightlyBatchCleanup.
Batch Administration	Execute Batch Set 3 Priv	n/a	n/a	n/a	n/a	x	This privilege allows the user to execute the following Pricing batch service processes: processPendingChunk, publishClearances, publishPriceChanges, and purge.
Batch Administration	Execute Batch Set 4 Priv	n/a	n/a	n/a	n/a	x	This privilege allows the user to execute the following Pricing batch service processes: purgeFutureRetail, purgeGttCapture, refreshPosData, and rollupFutureRetail.

The section below lists the predefined roles associated with each privilege in the default configuration:

Table 3–8   Pricing Cloud Service Predefined Roles

Privilege	Application Administrator	Data Steward	Pricing Analyst	Pricing Manager	Promotion Planner	Promotion Manager
Search Price Changes Priv	x	x	x	x	x	x
View Price Changes Priv	x	x	x	x	x	x
Maintain Price Changes Priv	x	x	x	x		
Submit Price Changes Priv	x	x	x	x		
Approve Price Changes Priv	x		x	x		
Maintain Emergency Price Changes Priv	x			x		
Search Clearances Priv	x	x	x	x	x	x
View Clearances Priv	x	x	x	x	x	x
Maintain Clearances Priv	x	x	x	x		
Submit Clearances Priv	x	x	x	x		
Approve Clearances Priv	x		x	x		
Maintain Emergency Clearances Priv	x			x		
Search Promotions Priv	x	x	x	x	x	x
View Promotions Priv	x	x	x	x	x	x
Maintain Promotions Priv	x	x			x	x
Submit Promotions Priv	x	x			x	x
Approve Promotions Priv	x				x	x
Cancel Promotions Priv	x					x
Maintain Emergency Promotions Priv	x					x
View Data Loading Status Priv	x	x	x	x	x	x
Maintain Data Loading Status Priv	x	x				
View Pricing Analyst Dashboard Priv	x		x			
View Promotion Planner Dashboard Priv	x				x	x
Maintain Grocery Attributes Priv (Merchandising Priv)	x	x	x	x	x	x
Use Diffs Priv (Merchandising Priv)	x	x	x	x	x	x
View Price Zones Priv	x	x	x	x		
Maintain Price Zones Priv	x	x	x	x		
View Rounding Rules Priv	x	x	x	x		
Maintain Rounding Rules Priv	x	x				
View Application Administration Priv	x	x				

Table 3–8   (Cont.) Pricing Cloud Service Predefined Roles

Privilege	Application Administrator	Data Steward	Pricing Analyst	Pricing Manager	Promotion Planner	Promotion Manager
Maintain Application Administration Priv	x	x				
Maintain System Administration Priv	x					
Batch 1 Priv	x					
Batch 2 Priv	x					
Batch 3 Priv	x					
Batch 4 Priv	x					

The section below lists the privileges contained in each of the predefined duties provided in the default configuration:

Table 3–9   Privileges Contained in Predefined Duties

Duty	Duty Description	Privileges Contained Within
Price Change Management Duty	A duty for maintaining and submitting price changes. This duty is an extension of the Price Change Inquiry Duty.	All privileges included in the Price Change Inquiry Duty. Maintain Price Changes Priv Submit Price Changes Priv
Price Change Approval Duty	A duty for approving price changes. This duty is an extension of the Price Change Management Duty.	All privileges included in the Price Change Management Duty. Approve Price Changes Priv
Price Change High Security Duty	A duty for creating emergency price changes. This duty is an extension of the Price Change Approval Duty.	All privileges included in the Price Change Approval Duty. Maintain Emergency Price Changes Priv
Clearance Inquiry Duty	A duty for viewing clearances including unit of measure and differentiator item related information. This duty contains privileges from the UOMs within Price Events Management Duty and the Diffs within Price Events Management Duty.	Search Clearances Priv View Clearances Priv All privileges included in the UOMs within Price Events Management Duty All privileges included in the Diffs within Price Events Management Duty
Clearance Management Duty	A duty for maintaining and submitting clearances. This duty is an extension of the Clearance Inquiry Duty.	All privileges included in the Clearance Inquiry Duty. Maintain Clearances Priv Submit Clearances Priv
Clearance Approval Duty	A duty for approving clearances. This duty is an extension of the Clearance Management Duty.	All privileges included in the Clearance Management Duty. Approve Clearances Priv
Clearance High Security Duty	A duty for creating emergency clearances. This duty is an extension of the Clearance Approval Duty.	All privileges included in the Clearance Approval Duty. Maintain Emergency Clearances Priv

Table 3–9   (Cont.) Privileges Contained in Predefined Duties

Duty	Duty Description	Privileges Contained Within
Promotion Inquiry Duty	A duty for viewing promotions including unit of measure and differentiator item related information. This duty contains privileges from the UOMs within Price Events Management Duty and the Diffs within Price Events Management Duty.	Search Promotions Priv View Promotions Priv All privileges included in the UOMs within Price Events Management Duty All privileges included in the Diffs within Price Events Management Duty
Promotion Management Duty	A duty for maintaining and submitting promotion offers. This duty is an extension of the Promotion Inquiry Duty.	All privileges included in the Promotion Inquiry Duty. Maintain Promotions Priv Submit Promotions Priv
Promotion Approval Duty	A duty for approving promotion offers. This duty is an extension of the Promotion Management Duty.	All privileges included in the Promotion Management Duty. Approve Promotions Priv
Promotion High Security Duty	A duty for canceling promotion offers, canceling items from offers, canceling locations from offers and creating emergency promotion offers. This duty is an extension of the Promotion Approval Duty.	All privileges included in the Promotion Approval Duty. Cancel Promotions Priv Maintain Emergency Promotions Priv
Data Loading Status Inquiry Duty	A duty for viewing data loading status information after performing spreadsheet downloads.	View Data Loading Status Priv
Data Loading Status Management Duty	A duty for maintaining data loading status information after performing spreadsheet downloads or uploads. This duty is an extension of the Data Loading Status Inquiry Duty.	All privileges in the Data Loading Status Inquiry Duty Maintain Data Loading Status Priv
Pricing Analyst Inquiry Duty	A duty for viewing the Pricing Analyst Dashboard.	View Pricing Analyst Dashboard Priv
Promotion Planner Inquiry Duty	A duty for viewing the Promotion Planner Dashboard.	View Promotion Planner Dashboard Priv
UOMs within Price Events Management Duty	A duty for viewing and maintaining units of measure on price events which is only needed for merchandise that is priced using a unit of measure other than 'Eaches'.	Maintain Grocery Attributes Priv
Diffs within Price Events Management Duty	A duty for viewing and maintaining item differentiators on price events.	Use Diffs Priv
Price Zone Inquiry Duty	A duty for viewing price zone groups, price zones, price zone locations and initial price zone definitions.	View Price Zones Priv
Price Zone Management Duty	A duty for creating and maintaining price zone groups, price zones, price zone locations and initial price zone definitions.	All privileges in the Price Zone Inquiry Duty Maintain Price Zones Priv
Rounding Rule Inquiry Duty	A duty for viewing rounding rule definitions.	View Rounding Rules Priv
Rounding Rule Management Duty	A duty for creating and maintaining rounding rule definitions.	All privileges in the Rounding Rule Inquiry Duty Maintain Rounding Rules Priv

Table 3–9   (Cont.) Privileges Contained in Predefined Duties

Duty	Duty Description	Privileges Contained Within
Application Admin Inquiry Duty	A duty for viewing application administrative information including system options.	View Application Administration Priv
Application Admin Management Duty	A duty for maintaining application administration information, including system options. This duty is an extension of the Application Admin Inquiry Duty.	All privileges in the Application Admin Inquiry Duty Maintain Application Administration Priv
System Admin Management Duty	A duty for maintaining system administration information within the system options screen. This duty is an extension of the Application Admin Management Duty.	All privileges in the Application Admin Management Duty Maintain System Administration Priv
Batch Management Duty	A duty for executing Pricing batch related service processes.	Execute Batch Set 1 Priv Execute Batch Set 2 Priv Execute Batch Set 3 Priv Execute Batch Set 4 Priv
Administrator Console Duty	A duty for accessing the administrator console which is the series of workflows accessed from the Settings menu in the application's sidebar menu.	no duties - access granted by assigning the duty to the desired role

A

Appendix A – Role Identifiers

Each role in the system has an identifier which is displayed in the security administration screens with a Role Type of 'Job'. Below is a list of each role and its identifier.

Table A–1   Roles and Role Identifiers

Role	Role Identifier
Pricing Analyst	PRICING_ANALYST_JOB
Pricing Manager	PRICING_MANAGER_JOB
Promotion Planner	PROMOTION_PLANNER_JOB
Promotion Manager	PROMOTION_MANAGER_JOB
Application Administrator	PRICING_APPLICATION_ADMINISTRATOR_JOB
Data Steward	PRICING_DATA_STEWARD_JOB

B

Appendix B – Duty Identifiers

Each duty in the system has an identifier which is displayed in the security administration screens. Below is a list of each duty and its identifier.

Table B–1   Duty and Duty Identifiers

Duties	Duty Identifier
Price Change Inquiry Duty	PRICE_CHANGE_INQUIRY_DUTY
Price Change Management Duty	PRICE_CHANGE_MANAGEMENT_DUTY
Price Change Approval Duty	PRICE_CHANGE_APPROVAL_DUTY
Price Change High Security Duty	PRICE_CHANGE_HIGH_SECURITY_DUTY
Clearance Inquiry Duty	CLEARANCE_INQUIRY_DUTY
Clearance Management Duty	CLEARANCE_MANAGEMENT_DUTY
Clearance Approval Duty	CLEARANCE_APPROVAL_DUTY
Clearance High Security Duty	CLEARANCE_HIGH_SECURITY_DUTY
Promotion Inquiry Duty	PROMOTION_INQUIRY_DUTY
Promotion Management Duty	PROMOTION_MANAGEMENT_DUTY
Promotion Approval Duty	PROMOTION_APPROVAL_DUTY
Promotion High Security Duty	PROMOTION_HIGH_SECURITY_DUTY
Data Loading Status Inquiry Duty	RPM_BATCH_DUTY
Data Loading Status Management Duty	DATA_LOADING_INQUIRY_DUTY
Pricing Analyst Dashboard Inquiry Duty	PRICING_ANALYST_DASHBOARD_INQUIRY_DUTY

Table B–1   (Cont.) Duty and Duty Identifiers

Duties	Duty Identifier
Promotion Planner Dashboard Inquiry Duty	PROMOTION_PLANNER_DASHBOARD_DUTY
UOMs within Price Events Management Duty	UOMS_WITHIN_PRICE_EVENTS_MANAGEMENT_DUTY
Diffs within Price Events Management Duty	DIFFS_WITHIN_PRICE_EVENTS_MANAGEMENT_DUTY
Price Zone Inquiry Duty	PRICE_ZONE_INQUIRY_DUTY
Price Zone Management Duty	PRICE_ZONE_MANAGEMENT_DUTY
Rounding Rule Inquiry Duty	ROUNDING_RULE_INQUIRY_DUTY
Rounding Rule Management Duty	ROUNDING_RULE_MANAGEMENT_DUTY
Application Admin Inquiry Duty	APPLICATION_ADMIN_INQUIRY_DUTY
Application Admin Management Duty	APPLICATION_ADMIN_MANAGEMENT_DUTY
System Admin Management Duty	SYSTEM_ADMIN_MANAGEMENT_DUTY
Batch Management Duty	RPM_BATCH_DUTY
Administrator Console Duty	ADMIN_CONSOLE_DUTY

C

Appendix C – Privilege Identifiers

Each privilege in the system has an identifier which is displayed in the security administration screens. Below is a list of each privilege and its identifier.

Table C–1   Privilege and Privilege Identifiers

Privileges	Privilege Identifier
Search Price Changes Priv	SEARCH_PRICE_CHANGES_PRIV
View Price Changes Priv	VIEW_PRICE_CHANGES_PRIV
Maintain Price Changes Priv	MAINTAIN_PRICE_CHANGES_PRIV
Submit Price Changes Priv	SUBMIT_PRICE_CHANGES_PRIV
Approve Price Changes Priv	APPROVE_PRICE_CHANGES_PRIV
Maintain Emergency Price Changes Priv	MAINTAIN_EMERGENCY_PRICE_CHANGES_PRIV
Search Clearances Priv	SEARCH_CLEARANCES_PRIV
View Clearances Priv	VIEW_CLEARANCES_PRIV
Maintain Clearances Priv	MAINTAIN_CLEARANCES_PRIV
Submit Clearances Priv	SUBMIT_CLEARANCES_PRIV
Approve Clearances Priv	APPROVE_CLEARANCES_PRIV
Maintain Emergency Clearances Priv	MAINTAIN_EMERGENCY_CLEARANCES_PRIV
Search Promotions Priv	SEARCH_PROMOTIONS_PRIV
View Promotions Priv	VIEW_PROMOTIONS_PRIV
Maintain Promotions Priv	MAINTAIN_PROMOTIONS_PRIV
Submit Promotions Priv	SUBMIT_PROMOTIONS_PRIV
Approve Promotions Priv	APPROVE_PROMOTIONS_PRIV
Cancel Promotions Priv	CANCEL_PROMOTIONS_PRIV
Maintain Emergency Promotions Priv	MAINTAIN_EMERGENCY_PROMOTIONS_PRIV

Table C–1   (Cont.) Privilege and Privilege Identifiers

Privileges	Privilege Identifier
View Data Loading Status Priv	VIEW_DATA_LOADING_STATUS_PRIV
Maintain Data Loading Status Priv	MAINTAIN_DATA_LOADING_STATUS_PRIV
View Pricing Analyst Dashboard Priv	VIEW_PRICING_ANALYST_DASHBOARD_PRIV
View Promotion Planner Dashboard Priv	VIEW_PROMOTION_PLANNER_DASHBOARD_PRIV
Maintain Grocery Attributes Priv	MAINTAIN_GROCERY_ATTRIBUTES_PRIV
Use Diffs Priv	USE_DIFFS_PRIV
View Price Zones Priv	VIEW_PRICE_ZONES_PRIV
Maintain Price Zones Priv	MAINTAIN_PRICE_ZONES_PRIV
View Rounding Rules Priv	VIEW_ROUNDING_RULES_PRIV
Maintain Rounding Rules Priv	MAINTAIN_ROUNDING_RULES_PRIV
View Application Administration Priv	VIEW_APPLICATION_ADMINISTRATION_PRIV
Maintain Application Administration Priv	MAINTAIN_APPLICATION_ADMINISTRATION_PRIV
Maintain System Administration Priv	MAINTAIN_SYSTEM_ADMINISTRATION_PRIV
Batch 1 Priv	RPM_BATCH_1_PRIV
Batch 2 Priv	RPM_BATCH_2_PRIV
Batch 3 Priv	RPM_BATCH_3_PRIV
Batch 4 Priv	RPM_BATCH_4_PRIV