Oracle® Retail Fiscal Management Cloud Service

Security Guide

Release 23.1.201.0

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Oracle Retail Fiscal Management Cloud Service Security Guide, Release 23.1.301.0

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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 Fiscal Management 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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When you install the application for the first time, you install either a base release (for example, 19.0) or a later patch release (for example, 19.0.030). 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.

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

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

https://docs.oracle.com/en/industries/retail/index.html

(Data Model documents can be obtained 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.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

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

1
Overview

This document covers the aspects of security that are mentioned in the *Merchandising Cloud Services Security Guide* and describe them in more detail as well as outline how they are used in Fiscal Management.

Application Functional Security

Fiscal Management functional security supports a role-based, declarative model where resources are protected by roles that are assigned to users. Roles are associated with a logical grouping of duties, which in turn are associated with a set of privileges that 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 functionalities within.

Roles

Roles, also referred to as Job Roles, align with titles or jobs within a retailer's organization, such as a Financial Analyst or Financial 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 privilegescan 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 Fiscal Management are logical groupings of privileges or other duties that grant users access to a set of functionally related tasks within the cloud service.

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 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 Services offer 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 Merchandising Foundation Cloud Service, which is also where all the configuration for this functionality is managed.

Within Fiscal Management, there is no additional configuration needed. However, all Fiscal Management users need to be included in the user/group relationships configured in

Merchandising so that they can access the data needed to perform their jobs. With data filtering enabled, users are only able to view items that are part of the merchandise hierarchy to which they have been given data filtering access. Likewise, users are only able to view locations that are part of the organizational hierarchy to which they have been given data filtering access.

To implement data filtering in Merchandising, see the Managing Data Filtering chapter in the *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 to access the application and may be associated with several roles if desired.
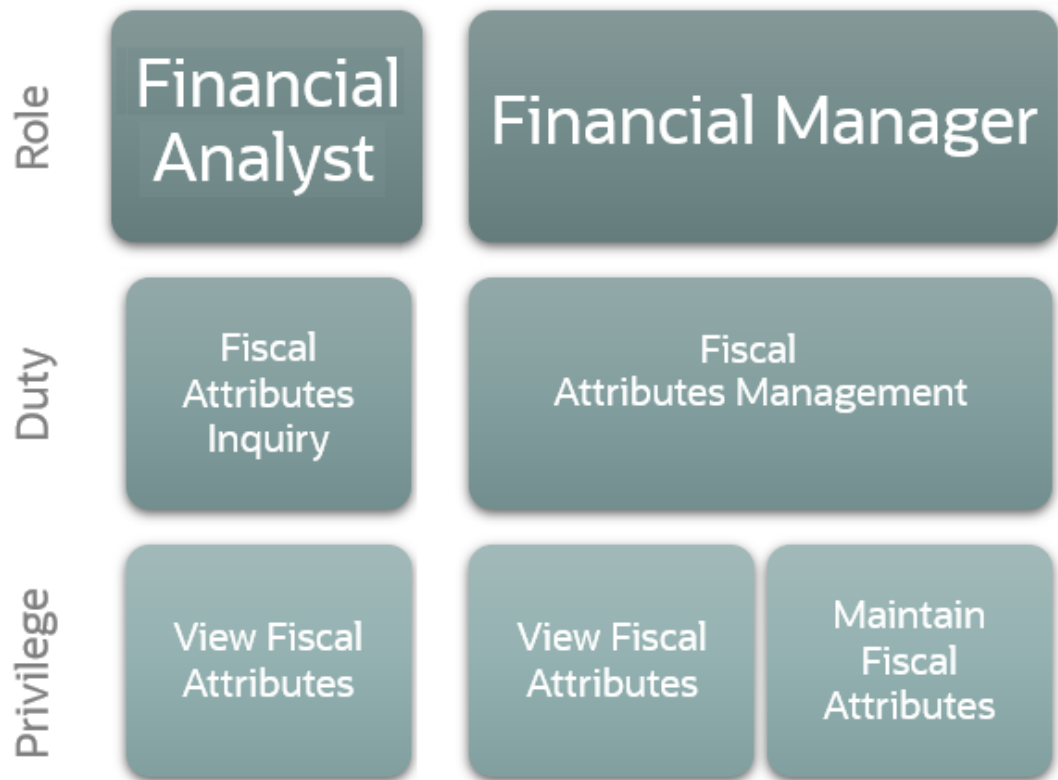
Roles Provided at Initial Setup

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 to access the application and may be associated with several roles if desired.

For example, within Fiscal Management, a user with a business role of Financial Analyst may be able to perform only the tasks associated with the provided Financial Analyst job role profile such as viewing fiscal attributes. Whereas a Financial Manager might have access to the set of tasks that are related to the maintenance of fiscal attributes. While an Administrator will require access to all areas.

Application Administrator

The Fiscal Management Application Administrator is part of a retailer's IT department responsible for maintaining and configuring the Oracle Retail Fiscal Management Cloud Service. 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 regularly.

- Troubleshooting and resolving product issues.

- Setting up users and security privileges for the application.

Financial Analyst

Responsible for analyzing financial information of an area within the enterprise to assist in decision-making and assist with planning for the brand. This includes:

- Supporting the finance team with scheduled reports and budgets.

- Monitoring performance indicator trends and analyzing causes of unexpected variances.

- Assisting with financial report generation, budget and trend preparation, and business plans.

- Assisting with cost control and conducting budget meetings with department managers.

- Developing, analyzing, and preparing data for use in negotiations with suppliers.

- Managing and approving the corporate view of vendor trade funds.

Financial Manager

Responsible for the financial accounting of a retailer's business, which includes making sure that all financial operations are running smoothly, bills are paid on time, figures are reported timely and accurately, and period-end books are closed properly. This includes:

- Ensuring period-end reporting is completed on time.

- Ensuring the timely resolution of auditing issues.

- Ensuring the timely resolution of vendor payment issues, including resolving cost and other invoicing discrepancies.

- Identifying risks and opportunity areas to the operations.

- Providing performance reporting highlighting trends and opportunities to assist in improving profits, margins and reducing costs.

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. Details about how to manage these application security policies are available in Chapter 2, Manage User Security in the *Merchandising Cloud Services Administration Guide*.

Duty Types

- **Inquiry** – An inquiry duty provides the user with the ability to search for and view the associated entity. The provided inquiry duties are used when a user should 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 with the ability to maintain the associated entity. The provided management duties are used when a user should have the ability to create, update, delete, and, submit information. Management duties always contain the inquiry duty for the same entity. For example, the Fiscal Attributes Management Duty contains the Fiscal Attributes Inquiry Duty along with the additional Maintain Fiscal Attributes Privilege, because 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 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.

Duties with no Hierarchical Relationships

There are a handful of privileges used within Fiscal Management 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 only view it. For example:

- **Application Global Menu Duties** – These duties grant access to links in the Application Navigator which allow users to launch into another application in the Merchandising suite. The default security configuration does not have these duties assigned to any roles.

- **Service Access Duty** – Grants access to execute Merchandising ReST services.

Determining Access for Your Organization

When determining access for a given role in your organization, start by categorizing each role with a duty type or access level for each functional area in the application.

Duty Definitions

For ease of mapping privileges to roles, privileges are logically grouped into duties. Duties may contain one or more privileges as well as other duties.

3.1. Duty Definitions list the privileges and nested duties contained in each of the predefined duties provided in the default security configuration:

Table 3-1   Duty Definitions

Functional Area	Duty	Duty Description	Duties and Privileges Contained Within
Administration - Application Navigator	Allocation Global Menu Duty	This duty is used to grant access to the Allocation link in the Application Navigator in the sidebar menu. There are no privileges within the duty, associating this duty to a role will grant access.	No duties or privileges are contained in this duty Assigning the duty to a role grants the user access
Administration - Application Navigator	Fiscal Management Global Menu Duty	This duty is used to grant access to the Fiscal Management link in the Application Navigator in the sidebar menu. There are no privileges within the duty, associating this duty to a role will grant access.	No duties or privileges are contained in this duty Assigning the duty to a role grants the user access
Administration - Application Navigator	Invoice Matching Global Menu Duty	This duty is used to grant access to the Invoice Matching link in the Application Navigator in the sidebar menu. There are no privileges within the duty, associating this duty to a role will grant access.	No duties or privileges are contained in this duty Assigning the duty to a role grants the user access

Table 3-1   (Cont.) Duty Definitions

Functional Area	Duty	Duty Description	Duties and Privileges Contained Within
Administration - Application Navigator	Merchandising Global Menu Duty	This duty is used to grant access to the Merchandising link in the Application Navigator in the sidebar menu. There are no privileges within the duty, associating this duty to a role will grant access.	No duties or privileges are contained in this duty Assigning the duty to a role grants the user access
Administration - Application Navigator	Pricing Global Menu Duty	This duty is used to grant access to the Pricing link in the Application Navigator in the sidebar menu. There are no privileges within the duty, associating this duty to a role will grant access.	No duties or privileges are contained in this duty Assigning the duty to a role grants the user access
Administration - Application Navigator	Sales Audit Global Menu Duty	This duty is used to grant access to the Sales Audit link in the Application Navigator in the sidebar menu. There are no privileges within the duty, associating this duty to a role will grant access.	No duties or privileges are contained in this duty Assigning the duty to a role grants the user access
Administration - Web Service Access	Service Access Duty	This duty can execute ReST services in the Fiscal Management application.	Fiscal Management Service Access Priv
Fiscal Attributes	Fiscal Attribute Inquiry Duty	This duty can search for and view fiscal attributes via the Item Attributes and Entity Attributes screens.	View Fiscal Attributes Priv
Fiscal Attributes	Fiscal Attribute Management Duty	This duty can create and maintain fiscal attributes via the Item Attributes and Entity Attributes screens. This duty is an extension of the Fiscal Attribute Inquiry Duty.	Fiscal Attribute Inquiry Duty Maintain Fiscal Attributes Priv

Duty to Role Mappings

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

Table 3-2   Application Administrator

Functional Area	Access Level	Duty Assigned
Administration – Web Service Access	Access Granted	Service Access Duty
Fiscal Attributes	Management	Fiscal Attribute Management Duty

Table 3-3   Financial Analyst

Functional Area	Access Level	Duty Assigned
Administration – Web Service Access	No Access	
Fiscal Attributes	Inquiry	Fiscal Attribute Inquiry Duty

Table 3-4   Financial Manager

Functional Area	Access Level	Duty Assigned
Administration – Web Service Access	No Access	
Fiscal Attributes	Management	Fiscal Attribute Management Duty

Privileges

For each functional area in the application, there is an associated set of privileges. The privileges build upon each other. For example, to be able to maintain fiscal attributes, the user must also be able to search for and view fiscal attributes. Therefore, the Fiscal Attributes Management Duty contains the View Fiscal Attributes and Maintain Fiscal Attributes privileges.

Figure 3-1   Privileges for Users

Privilege	Inquiry	Management
View Fiscal Attributes Priv	x	x
Maintain Fiscal Attributes Priv		x

Privileges Available in Fiscal Management

lists all of the privileges available in Fiscal Management, along with the duty type they are assigned to in the default configuration.

Table 3-5   Privileges Available in Fiscal Management

Functional Area	Privilege	Privilege Description
Administration – Web Service Access	Fiscal Management Service Access Priv	This privilege grants users the ability to execute Fiscal Management ReST services.
Fiscal Attributes	View Fiscal Attributes Priv	A privilege for viewing fiscal attributes via the Item Attributes and Entity Attributes screens.
Fiscal Attributes	Maintain Fiscal Attributes Priv	A privilege for creating and maintaining fiscal attributes via the Item Attributes and Entity Attributes screens. Users with this privilege must also have the View Fiscal Attributes Priv.

A

Appendix – Role Identifiers

Each role in the system has an identifier that is displayed in the security administration screens with a Role Type of Job. A.1. Role Identifier lists each role and its identifier.

Table A-1   Role Identifier

Role	Role Identifier
Application Administrator	RFM_APPLICATION_ADMINISTRATOR_JOB
Financial Analyst	FINANCIAL_ANALYST_JOB
Financial Manager	FINANCIAL_MANAGER_JOB

B

Appendix – Duty Identifiers

Each duty in the system has an identifier that is displayed in the security administration screens. B.1. Duty Identifiers lists each duty and its identifier.

Table B-1   Duty Identifiers

Functional Area	Duty	Duty Identifier
Administration - Application Navigator	Allocation Global Menu Duty	ALLOC_GLOBAL_MENU_DUTY
Administration - Application Navigator	Pricing Global Menu Duty	PRICING_GLOBAL_MENU_DUTY
Administration - Application Navigator	Invoice Matching Global Menu Duty	REIM_GLOBAL_MENU_DUTY
Administration - Application Navigator	Sales Audit Global Menu Duty	RESA_GLOBAL_MENU_DUTY
Administration - Application Navigator	Fiscal Management Global Menu Duty	RFM_GLOBAL_MENU_DUTY
Administration - Application Navigator	Merchandising Global Menu Duty	RMS_GLOBAL_MENU_DUTY
Administration - Web Service Access	Service Access Duty	RFM_SERVICE_ACCESS_DUTY
Fiscal Attributes	Fiscal Attribute Inquiry Duty	RFM_FISCAL_ATTRIBUTES_INQUIRY_DUTY
Fiscal Attributes	Fiscal Attribute Management Duty	RFM_FISCAL_ATTRIBUTES_MGMT_DUTY

C

Appendix – Privilege Identifiers

Each privilege in the system has an identifier that is displayed in the security administration screens. C Appendix C – Privilege Identifiers lists each privilege and its identifier.

Table C-1   Privilege Identifiers

Functional Area	Privilege	Privilege Identifier
Administration - Web Service Access	Fiscal Management Service Access Priv	RFM_SERVICE_ACCESS_PRIV
Fiscal Attributes	View Fiscal Attributes	VIEW_FISCAL_ATTRIBUTES_PRIV
Fiscal Attributes	Maintain Fiscal Attributes	MAINTAIN_FISCAL_ATTRIBUTES_PRIV