

Oracle® Banking Microservices Architecture

Oracle Banking Security Management System User Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Purpose

This guide provides an overview to the module and takes through the various steps involved setting up and using the security features that Oracle offers.

Audience

This guide is intended for Oracle Implementers, SMS Administrator for the Bank, SMS Administrator for the Branch, and an Oracle user.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our

initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information on any related features, refer to the following documents:

- *Oracle Banking Getting Started User Guide*
- *Oracle Banking Common Core User Guide*

Conventions

The following text conventions are used in this document:

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

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations that are used in this guide are as follows:

Table 1 Acronyms and Abbreviations


Abbreviation	Description
SMS	Security Management System

Basic Actions

Table 2 List of Basic Actions

Action	Description
Approve	Used to approve the initiated report. This button is displayed, once the user click Authorize .

Table 2 (Cont.) List of Basic Actions

Action	Description
Audit	Used to view the maker details, checker details, and report status.
Authorize	Used to authorize the report created. A maker of the screen is not allowed to authorize the report. Only a checker can authorize a report, created by a maker.
Close	Used to close a record. This action is available only when a record is created.
Confirm	Used to confirm the performed action.
Cancel	Used to cancel the performed action.
Compare	Used to view the comparison through the field values of old record and the current record. This button is displayed in the widget, once the user click Authorize .
Collapse All	Used to hide the details in the sections. This button is displayed, once the user click Compare .
Expand All	Used to expand and view all the details in the sections. This button is displayed, once the user click Compare .
New	Used to add a new record. When the user click New , the system displays a new record enabling to specify the required data. <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 20px;"> <p> Note: The fields which are marked with asterisk are mandatory.</p> </div>
OK	Used to confirm the details in the screen.
Save	Used to save the details entered or selected in the screen.
View	Used to view the report details in a particular modification stage. This button is displayed in the widget, once the user click Authorize .
View Difference only	Used to view a comparison through the field element values of old record and the current record, which has undergone changes. This button is displayed, once the user click Compare .
Unlock	Used to update the details of an existing record. System displays an existing record in editable mode.

Symbols and Icons

The following symbols and icons are used in the screens.

Table 3 Symbols and Icons - Common










Symbol/Icon	Function
	Minimize
	Maximize
	Close
	Perform Search
	Open a list
	Add a new record
	Navigate to the first record
	Navigate to the last record
	Navigate to the previous record

Table 3 (Cont.) Symbols and Icons - Common










Symbol/Icon	Function
	Navigate to the next record
	Grid view
	List view
	Refresh
	Click this icon to add a new row.
	Click this icon to delete an existing row.
	Click to view the created record.
	Click to modify the fields.
	Click to unlock, delete, authorize or view the created record.

Table 4 Symbols and Icons - Audit Details









Symbol/Icon	Function
	A user
	Date and time
	Unauthorized or Closed status
	Authorized or Open status

Table 5 Symbols and Icons - Widget

Symbol/Icon	Function
	Open status
	Unauthorized status
	Closed status
	Authorized status

1 Role

This topic describes about the maintenance of role and the respective access rights.

The users who works in the same department at the same level of hierarchy need to have similar user profiles. In such cases, the user can define a Role Profile that includes access rights to the functional activities that are common to a group of users. A user can be linked to a Role Profile by giving the user access rights to all the functional activities in the Role Profile.

The roles defined is effective only after the dual authorization.

- [Create Role](#)
This topic provides the systematic instructions to create role.
- [View Role](#)
This topic provides the systematic instructions to view the list of configured roles.

1.1 Create Role

This topic provides the systematic instructions to create role.

Specify **User ID** and **Password**, and login **Home** screen.

The **Create Role** screen allows the user to create roles and assign their activities.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **Role**.
2. Under **Role**, click **Create Role**.

The **Create Role** screen displays.

Figure 1-1 Create Role

The screenshot shows the 'Create Role' interface. At the top, there are two text input fields: 'Role Code' and 'Description', both with a 'Required' label below them. Below the input fields is a table with two columns: 'Functional Activity Code' and 'Functional Activity Description'. The table is currently empty, displaying 'No data to display.' Below the table, there is a pagination bar showing 'Page 1 (0 of 0 items)' and navigation arrows. At the bottom right of the screen, there are 'Cancel' and 'Save' buttons.

3. Specify the fields on the **Create Role** screen.

 **Note:**

The fields which are marked with asterisk are mandatory.

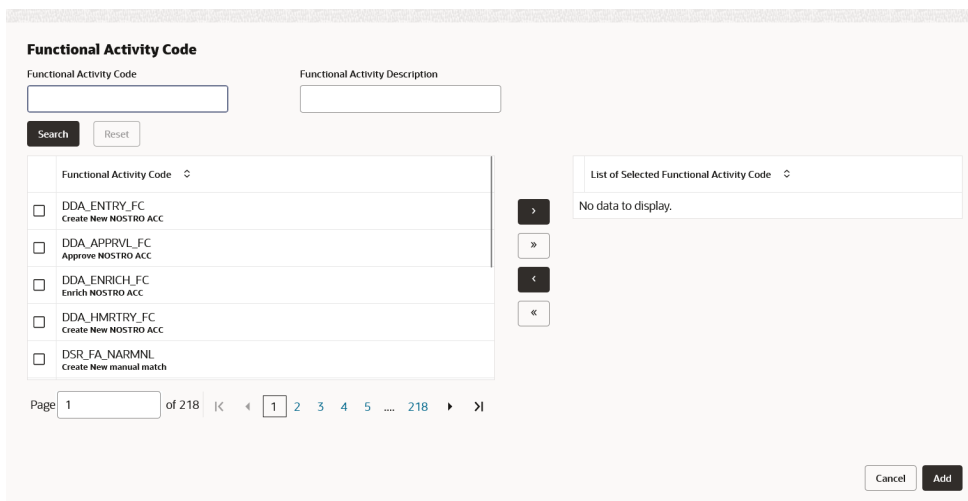
For more information on fields, refer to the field description table below.

Table 1-1 Create Role - Field Description

Field	Description
Role Code	Specify the code of the role.
Description	Specify the description about the role.

- Click **Add** button to add a functional activity code.
The **Functional Description** popup displays.

Figure 1-2 Function Description



- Specify the functional activity code or functional activity description in the respective fields.
- Click **Search** to filter the required functional activity list.
- Select the required functional activity code to which the role profile must have access. For more information on functional activity, refer to [Functional Activity Codes](#)

 **Note:**

User can select only 50 functional activity codes at a time using **Select All (>>)** option.

- Perform the following actions on functional activity code screen:
 - Click **Add** button to add a functional activity for the role creation.

- b. Click **Cancel** button to discard the changes.
9. Click **Delete** button to delete the functional activity code to which the role profile access is not required.
10. Click **Save** to save the details.

The user can view the configured roles in the [View Role](#).

1.2 View Role

This topic provides the systematic instructions to view the list of configured roles.

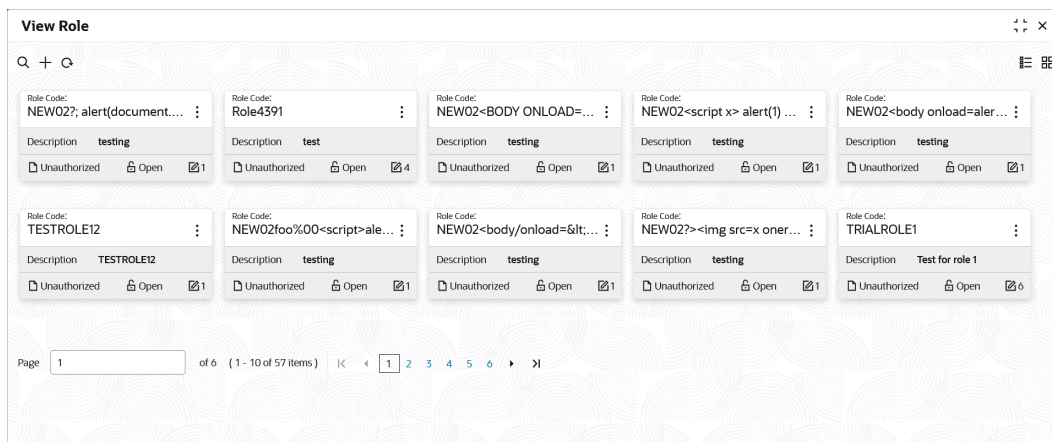
Specify **User ID** and **Password**, and login **Home** screen.

The user can configure the role using the [Create Role](#) screen.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **Role**.
2. Under **Role**, click **View Role**.

The **View Role** screen displays.

Figure 1-3 View Role



For more information on fields, refer to the field description table.

Table 1-2 View Role - Field Description

Field	Description
Role Code	Displays the code of the role.
Description	Displays additional details about the role.
Authorization Status	Displays the authorization status of the configured role. The available options are: <ul style="list-style-type: none"> • Authorized • Rejected • Unauthorized

Table 1-2 (Cont.) View Role - Field Description

Field	Description
Record Status	Displays the record status of the configured role. The available options are: <ul style="list-style-type: none"><li data-bbox="737 359 846 386">• Open<li data-bbox="737 390 862 417">• Closed
Modification Number	Displays the number of modification performed on the record.

2 User

This topic describes about the maintenance of the user and their access.

Controlled access to the system is a basic parameter that determines the robustness of the security in banking software. Only authorized users can access the system with the help of a unique User Login ID and password. The user profile of a user contains the details of the user in four sections - User details, Status, Other details and User role branches.

- [Create User](#)
This topic provides the systematic instructions to create the user and assign their activities based on their entity login.
- [View User](#)
This topic provides the systematic instructions to view the list of configured users.
- [Clear User](#)
This topic provides the systematic instructions to clear the user.
- [Unlock User](#)
This topic provides the systematic instructions to unlock the user.

2.1 Create User

This topic provides the systematic instructions to create the user and assign their activities based on their entity login.

Specify **User ID** and **Password**, and login **Home** screen.

The **Create User** screen allows the user to create the user and assign their activities based on their entity login.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **User**.
2. Under **User**, click **Create User**.

The **Create User** screen displays.

Figure 2-1 Create User - Single Entity

Create User
⌵ ⌵ ×

User Details

Login ID
Required

Name
Required

Home Branch
Required

Status

User Status
Select an option Required

Status Changed On

Is Supervisor

Manager ID
Required

Start Date
May 18, 2021

End Date

System User

Other Details

Access to PII

Staff Customer Restriction Required

Customer ID
Required

Email ID

Telephone Number

Home Phone Number

Mobile Number

Fax

Language Code
Required

User Role Branches

	Branch Code	Role Code	Role Description
<input type="checkbox"/>			

No data to display.

Page 1 (0 of 0 items) |< < 1 > >|

User Applications

Select All Applications

	Application Name	Application Description
<input type="checkbox"/>		

No data to display.

Page 1 (0 of 0 items) |< < 1 > >|

Customer Access Groups


	Customer Access Group	Customer Access Description
<input type="checkbox"/>		

No data to display.

Page 1 (0 of 0 items) |< < 1 > >|

Figure 2-2 Create User - Multi Entity

3. Specify the fields on **Create User** screen.


 **Note:**
The fields which are marked with asterisk are mandatory.

For more information on fields, refer to the field description table below.

Table 2-1 Create User - Field Description

Field	Description
Login ID	<p>Single Entity - Specify login ID with which a user logs into the system. This login ID is unique across all branches. The minimum length of login ID can be configurable and the maximum number can be 12 characters.</p> <p>Multi Entity - Search and select the required login ID from the LOV.</p>

Table 2-1 (Cont.) Create User - Field Description

Field	Description
Name	Specify the name of the user.
Home Branch	Click the Search icon and select required home branch.
User Status	Select the user status from the drop-down list.
Status Changed On	Displays the last modified status.
Is Supervisor	Select the toggle to indicate whether the user is a supervisor or not. By default, this option is disabled.
Manager ID	Click the Search icon and select the required manager ID.
Start Date	Select the start date from when the user is valid.
End Date	Select the end date till when the user is valid.
Access to PII	Select the toggle to enable the user to access the Personal Identifiable Information of the entity. By default, this option is disabled.
Staff Customer Restriction Required	Select the toggle to enable the staff customer restriction. By default, this option is disabled.
Customer ID	Click the Search icon and select required customer ID.
Email ID	Specify the user Email ID at the time of the creation. All system generated password is communicated to the user through this mail ID.
Telephone Number	Specify the user contact number.
Home Phone Number	Specify the user home contact number.
Mobile Number	Specify the user mobile number.
Fax	Specify the fax details of the user.
Language Code	Click the Search icon and select the required language code.
User Role Branches	Specify the user role branches details. <div style="border-left: 2px solid #0070C0; padding-left: 10px; margin-left: 20px;"> <p> Note:</p> <p>A minimum of one user role and branch must be mapped.</p> </div>
Branch Code	Click the Search icon and select the required branch code.
Role Code	Click the Search icon and select the required role code.
Role Description	Displays the description about the role, based on the selected role code.
User Applications	Specify the user application details.
Application Name	Click the Search icon and select the required application.
Application Description	Displays the description about the application based on the selected application.
Customer Access Groups	Specify the customer access group details.
Customer Access Group	Search and select the required customer access group from the list.
Customer Access Description	Displays the additional information about the customer access based on the selected group.

4. Click + to add a row and provide the required details in the columns.

5. Click **Select All Applications** button to select all the applications for which the user needs the access.
6. Click **Save** to save the details.

The user can view the configured users in the [View User](#).

Note:

User modification is not allowed while the user is logged in. However, the administrator can clear off the user and perform modifications. For more information, refer to the [Clear User](#) topic.

2.2 View User

This topic provides the systematic instructions to view the list of configured users.

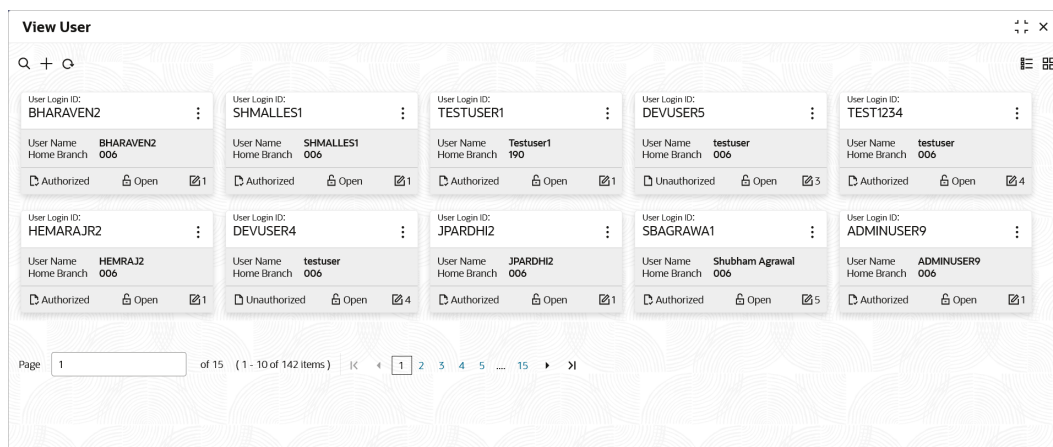
Specify **User ID** and **Password**, and login **Home** screen.

The user can configure the user using the [Create User](#) screen.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **User**.
2. Under **User**, click **View User**.

The **View User** screen displays.

Figure 2-3 View User



For more information on fields, refer to the field description table.

Table 2-2 View User - Field Description

Field	Description
User Login ID	Displays the user login ID details.
User Name	Displays the user who has created the record.

Table 2-2 (Cont.) View User - Field Description

Field	Description
Home Branch	Displays the details of the home branch associated with the user.
Authorization Status	Displays the authorization status of the configured user. The available options are: <ul style="list-style-type: none"> • Authorized • Rejected • Unauthorized
Record Status	Displays the record status of the configured user. The available options are: <ul style="list-style-type: none"> • Open • Closed
Modification Number	Displays the number of modification performed on the record.

2.3 Clear User

This topic provides the systematic instructions to clear the user.

Specify **User ID** and **Password**, and login **Home** screen.

The **Clear User** screen allows the user to clear off the current users.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **User**.
2. Under **User**, click **Clear User**.

The **Clear User** screen displays.

Figure 2-4 Clear User

The user can search for the user based on the **User Login ID** and **Branch Code** parameters.

3. Specify the fields on the **Clear User** screen.

Note:

The fields which are marked with asterisk are mandatory.

For more information on fields, refer to the field description table below.

Table 2-3 Clear User - Field Description

Field	Description
User Login ID	Specify the user login ID.
Branch Code	Specify the branch code.

4. Click **Query**, once the parameters are specified.
The system displays the following details of the users who have logged into the system.
 - Branch Code
 - User Login ID
 - User Name
5. Click **Reset** to reset the query parameters.
6. Select the check box against the relevant user record and click **Save** to force log out of the selected user.

2.4 Unlock User

This topic provides the systematic instructions to unlock the user.

Specify **User ID** and **Password**, and login **Home** screen.

The **Unlock User** screen allows the user to unlock the users.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **User**.
2. Under **User**, click **Unlock User**.

The **Unlock User** screen displays.

Figure 2-5 Unlock User

3. Select the **User Login ID** from the drop-down list.
4. Click **Unlock** to unlock the selected users.
5. Click **Clear** to clear the details.

A

Error Codes and Messages

This topic contains the error codes and messages.

Table A-1 Error Codes and Messages

Error Code	Messages
GCS-AUTH-01	Record Successfully Authorized.
GCS-AUTH-02	Valid modifications for approval were not sent. Failed to match.
GCS-AUTH-03	Maker cannot authorize.
GCS-AUTH-04	No Valid unauthorized modifications found for approval.
GCS-CLOS-002	Record Successfully Closed.
GCS-CLOS-01	Record Already Closed.
GCS-CLOS-02	Record Successfully Closed.
GCS-CLOS-03	Unauthorized record cannot be closed, it can be deleted before first authorization.
GCS-COM-001	Record does not exist.
GCS-COM-002	Invalid version sent, operation can be performed only on latest version.
GCS-COM-003	Please Send Proper ModNo.
GCS-COM-004	Please send makerId in the request.
GCS-COM-005	Request is Null. Please Resend with Proper Values.
GCS-COM-006	Unable to parse JSON.
GCS-COM-007	Request Successfully Processed.
GCS-COM-008	Modifications should be consecutive.
GCS-COM-009	Resource ID cannot be blank or null.
GCS-COM-010	Successfully cancelled \$1.
GCS-COM-011	\$1 failed to update.
GCS-DEL-001	Record deleted successfully.
GCS-DEL-002	Record(s) deleted successfully
GCS-DEL-003	Modifications didn't match valid unauthorized modifications that can be deleted for this record.
GCS-DEL-004	Send all unauthorized modifications to be deleted for record that is not authorized even once.
GCS-DEL-005	Only Maker of first version of record can delete modifications of record that is not once authorized.
GCS-DEL-006	No valid unauthorised modifications found for deleting.
GCS-DEL-007	Failed to delete. Only maker of the modification(s) can delete.
GCS-MOD-001	Closed Record cannot be modified.
GCS-MOD-002	Record Successfully Modified.
GCS-MOD-003	Record marked for close, cannot modify.
GCS-MOD-004	Only maker of the record can modify before once auth
GCS-MOD-005	Not amendable field, cannot modify.
GCS-MOD-006	Natural Key cannot be modified.

Table A-1 (Cont.) Error Codes and Messages

Error Code	Messages
GCS-MOD-007	Only the maker can modify the pending records.
GCS-REOP-003	Successfully Reopened.
GCS-REOP-01	Unauthorized Record cannot be Reopened.
GCS-REOP-02	Failed to Reopen the Record, cannot reopen Open records.
GCS-REOP-03	Successfully Reopened.
GCS-REOP-04	Unauthorized record cannot be reopened, record should be closed and authorized.
GCS-SAV-001	Record already exists.
GCS-SAV-002	Record Saved Successfully.
GCS-SAV-003	The record is saved and validated successfully.
GCS-VAL-001	The record is successfully validated.
GCS-REJ-001	A rejected record cannot be closed. Please delete this modification.
GCS-REJ-002	A rejected record cannot be reopened. Please delete this modification.
GCS-REJ-003	Invalid modifications sent for reject. Highest modification must also be included.
GCS-REJ-004	Record Rejected successfully
GCS-REJ-005	Maker cannot reject the record.
GCS-REJ-006	Checker remarks are mandatory while rejecting.
GCS-REJ-007	No valid modifications found for reject.
GCS-REJ-008	Invalid modifications sent for reject. Consecutive modifications must be included.
SMS-COM-001	End Date cannot be less than Start Date.
SMS-COM-002	Start Date Cannot be less than Application Date and Application date is \$1.
SMS-COM-003	Cannot create/modify own User record.
SMS-COM-004	Cannot authorize own User record.
SMS-COM-005	Start date cannot be modified.
SMS-COM-008	Invalid RoleCode.
SMS-COM-009	Invalid Role Description.
SMS-COM-010	Invalid User LoginId.
SMS-COM-011	Invalid User Name.
SMS-COM-012	Invalid Home Branch.
SMS-LOV-001	Invalid Home Branch.
SMS-LOV-002	At least one role and branch mapping is mandatory.
SMS-LOV-003	User Login ID should not contain Special Characters or Spaces.
SMS-LOV-004	Invalid Manager Id.
SMS-LOV-005	Not a Valid Email Id format.
SMS-LOV-006	Invalid Branch Code.
SMS-LOV-007	Invalid Application Id.
SMS-LOV-008	Invalid Role Code.
SMS-URB-001	Duplicate records present under User Role Branches for Branch code \$1 and Role code \$2.
ST-SAVE-027	Request Successfully Processed.

B

Functional Activity Codes

This topic describes about the functional activity for Security Management System services.

SMS manages the user access by associating various functional activities to a role. Based on the business use cases, the granular level activities / operations are defined at Functional activity.

SMS related functional activities must be mapped to a Role for Menu, Dashboard, User maintenance, and Role maintenance related access. It is as follows:

Table B-1 Functional Activity Codes

Screen/API Names	Functional Activity Codes	Action	Description
Role	SMS_FA_ROLE_AMEND	UNLOCK	Functional activity for modifying a role record.
Role	SMS_FA_ROLE_AUTHORIZE	AUTHORIZE	Functional activity for authorizing a role record including Authority query and View changes.
Role	SMS_FA_ROLE_CLOSE	CLOSE	Functional activity for closing a role record.
Role	SMS_FA_ROLE_REOPEN	REOPEN	Functional activity for reopening a role record.
Role	SMS_FA_ROLE_VIEW	VIEW	Functional activity for viewing a role record including role LOV validation.
Role	SMS_FA_ROLE_DELETE	DELETE	Functional activity for deleting a role record.
Role	SMS_FA_ROLE_NEW	NEW	Functional activity for creating a role record.
Role	SMS_FA_GET_ALL_FUNC_ACTIVITIES	VIEW	Functional activity for getting all the functional activities.
User	SMS_FA_USER_AMEND	UNLOCK	Functional activity for modifying a user record.
User	SMS_FA_USER_AUTHORIZE	AUTHORIZE	Functional activity for authorizing a user record including Authority query and View changes.
User	SMS_FA_USER_CLOSE	CLOSE	Functional activity for closing a user record.
User	SMS_FA_USER_DELETE	DELETE	Functional activity for deleting a user record.
User	SMS_FA_USER_NEW	NEW	Functional activity for creating a user record.
User	SMS_FA_USER_REOPEN	REOPEN	Functional activity for reopening a user record.

Table B-1 (Cont.) Functional Activity Codes

Screen/API Names	Functional Activity Codes	Action	Description
User	SMS_FA_USER_VIEW	VIEW	Functional activity for viewing a user record including user LOV validation.
User	SMS_FA_USER_VIEW_NEW	VIEW	Functional activity to validate existing User.
User	SMS_FA_USER_CUST_ACCESS_GROUP	VIEW	Functional activity for maintaining the user customer access group.
User	SMS_FA_APPLICATION_VIEW	VIEW	Functional activity for viewing all the applications.
Clear User	SMS_FA_USER_GET_LOGIN_STATUS	VIEW	Functional activity for getting the login status.
Clear User	SMS_FA_USER_CLEAR	UPDATE	Functional Activity for Clear User.
sms-core-services	SMS_FA_LOAN_DASHBOARD_PREFERENCE	VIEW	Functional activity for reading User Dashboard preference.
sms-core-services	SMS_FA_LOAN_DASHBOARD_PREFERENCE_PUT	UPDATE	Functional activity for updating User Dashboard preference.
sms-core-services	SMS_FA_LOAN_DASHBOARD_VIEW	VIEW	Functional activity for reading User Dashboard tiles.
sms-core-services	SMS_FA_MENU_DASHBOARD_VIEW	VIEW	Functional activity for constructing menu.
sms-core-services	SMS_FA_USER_GET_HIERARCHY	VIEW	Functional activity for getting the user hierarchy.
sms-core-services	SMS_FA_USER_GET_PEER_REPORTERS	VIEW	Functional activity for getting the peer reporters.
sms-core-services	SMS_FA_USER_AUDIT_TRAIL_GET	VIEW	Functional activity for getting the audit trail.
sms-core-services	SMS_FA_USER_GET_USER_FUNCTIONAL_ACTIVITIES	VIEW	Functional activity for getting the user functional activities.
sms-core-services	SMS_FA_USER_SERVICE_AMEND	UNLOCK	Functional Activity for user amendment using service API.
sms-core-services	SMS_FA_USER_SERVICE_NEW	NEW	Activity for user creation using service API.
sms-core-services	SMS_FA_USER_GET_REPORTERS	VIEW	Functional activity for getting the reporters.
sms-core-services	SMS_FA_GET_ALL_FUNCTIONAL_ACTIVITIES_SUB	VIEW	Functional activity for getting all the functional activities for subordinates.
sms-core-services	SMS_FA_USER_GET_FILTERED_USERS	VIEW	Functional activity for getting all filtered users.
sms-core-services	SMS_FA_USER_MAINT_BATCH	BATCH	Functional activity for maintaining the user batch.
Login	SMS_FA_USER_LOGIN	LOGIN	Functional activity for logging in the user.

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