

# **Oracle® Banking Enterprise Default Management**

Adapter Configuration Guide

Release 2.10.0.0.0

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# Preface

This guide helps you to understand the Collections and Recovery adapters and its associated operations.

This preface contains the following topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Organization of the Guide](#)
- [Conventions](#)

## Audience

This document is intended for the following:

- IT Deployment Team
- Consulting Staff
- Administrators

## Documentation Accessibility

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## Organization of the Guide

### [Chapter 1 About this Guide](#)

This chapter provides details about applicability of this guide.

### [Chapter 2 Introduction](#)

This chapter presents an overview of adapters and various product-shipped adapters.

### [Chapter 3 List of Collections Adapter APIs](#)

This chapter provides detailed information on adapter APIs of Collections.

### [Chapter 4 List of Recovery Adapter APIs](#)

This chapter provides detailed information on adapter APIs of Recovery.

### [Chapter 5 List of Localized Adapter APIs](#)

This chapter provides a list of Localized Adapter APIs.

## Conventions

The following text conventions are used in this document:

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



# 1 About this Guide

This guide is applicable for the following products:

- Oracle Banking Platform (Oracle Banking Collections and Oracle Banking Recovery)
- Oracle Banking Enterprise Default Management (Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery)

References to Oracle Banking Platform or OBP in this guide apply to all the above mentioned products.





# 2 Introduction

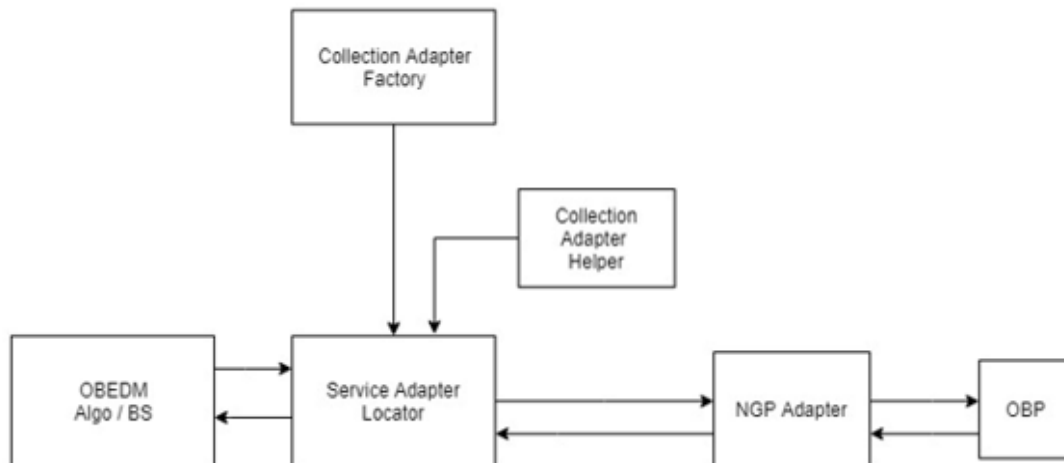
Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery interacts with multiple systems available within the enterprise arena. Transaction data owned by banking host systems are forwarded to Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery. Updates on the transaction data in the Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery module are updated on the banking host and other integrated modules/systems as well. In addition, Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery application is designed to integrate with any other services by using the adapter pattern. Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery provide adapters to integrate with OBP modules and technical modules such as Document Management System (DMS)/Alert/E-mail systems.

Adapter pattern allows consulting or implementation team to integrate Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery application with any other host or enterprise service. This document covers the details of the adapters being shipped with Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery module. Additionally, it also covers the steps to create any new adapter.

## 2.1 Adapter Architecture

The Adapter Architecture Flow diagram is as follows:

Figure 2–1 Adapter Architecture



## 2.2 Product-Shipped Adapters

Adapter properties must be present in `flx_fw_config_all_b` table under category id '`CollectionAdapterFactory`'. Factory returns the implementation class based on `flx_fw_config_all_b.prop_value` returned from table. Oracle Banking Enterprise Collections and Oracle Banking Enterprise Recovery provide different set of implementation classes to call OBP services. These implementation classes invoke OBP services to get the data into the DTO. OBP module DTO's are different from the DTO used in Collections. The helper classes are used to convert the data received or sent to OBP services into

Collections specific DTO. This design pattern helps in creating an abstraction layer between the OBP modules and Collections module.

The following table shows the list of adapter classes created in Collections along with their corresponding helper classes. These Collections implementation classes internally invoke services from respective HOST. For example, if the adapter is for OBP, then these classes will invoke services from OBP.

**Table 2–1 Product-Shipped Adapters**

Adapter	Implementation Class	Description
NGP_HOST_IMPL	com.splwg.ccb.domain.externalservice.adapter.impl.CollectionNGPAdapter	OBP implementation class. Use this adapter to interact with OBP.
NGP_HOST_HELPER	com.splwg.ccb.domain.externalservice.adapter.helper.NGPCollectionAdapterHelper	This is a helper class that converts the Collection DTO object to OBP host DTO object.
DOC_HOST_IMPL	com.splwg.ccb.domain.externalservice.adapter.impl.CollectionNGPAdapter	This is an implementation class, which generates the documents. If you want to use some other interface to generate document, then you must use a separate implementation class.
DOC_HOST_HELPER	com.splwg.ccb.domain.externalservice.adapter.helper.NGPCollectionAdapterHelper	This helper class creates a DTO, which is required to generate the document.
EVENT_HOST_IMPL	com.splwg.ccb.domain.externalservice.adapter.impl.CollectionNGPAdapter	This adapter is used to send e-mails and SMS.

Adapter	Implementation Class	Description
EVENT_HOST_HELPER	com.splwg.ccb.domain.externalservice.adapter.helper.NGPCollectionAdapterHelper	This adapter converts the DTO of one module to another module. This helper class creates DTO required for event management API.
APPROVAL_HOST_IMPL	com.splwg.ccb.domain.externalservice.adapter.impl.CollectionNGPAdapter	This adapter is used for approval workflow.
APPROVAL_HOST_HELPER	com.splwg.ccb.domain.externalservice.adapter.helper.NGPCollectionAdapterHelper	This adapter converts the DTO of one module to another module. This helper class creates DTO for approval workflow API.

The naming conventions for the classes in the adapter property stored in the table **flx\_fw\_config\_all\_b.prop\_id** are:

Implementation class for the host.

**[Name of the Host]\_HOST\_HOST\_IMPL**

This class invokes the services exposed by host

Helper class for the host

**[Name of the Host]\_HOST\_HOST\_HELPER**

This class converts the DTO of one module to another module.

## 2.3 Calling an Adapter

Adapters are invoked when modules need to interact with each other or with any other application. Adapters are invoked by the following:

- **Transactions:** When there is data updation in host, such as collateral updates, warning indicators update, collection flag update in host, and so on.
- **Infrastructure:** When Infrastructure services are called by ORMB, such as Rule engine, DMS, Approval system, and so on.

### 2.3.1 How to call an Adapter

The following information explains how to call an adapter:

- **Transaction**

The transaction updates the collateral's realization status in the OBP host. Here, the client class passes **NULL** as first parameter and **host id** as second parameter. The Collection adapter factory then adds `_HOST_IMPL` to retrieve the key value.

```
CollectionAdapterFactory adaptorFactory = CollectionAdapterFactory.getInstance();
```

```
ngpAdaptor = adaptorFactory ICollectionAdapter.getAdapter(null, hostId);
```

Based on above configuration, the hosted factory returns the host implementation class. Currently, we support OBP as host.

- **Infrastructure**

Here, the client class needs to pass the **INFRA component id** as first parameter and **NULL** as second parameter. The Collection adapter factory class then adds `_HOST_IMPL` to retrieve the key value.

These implementations are maintained separately for different usage.

**RULE**

```
CollectionAdapterFactory adaptorFactory = CollectionAdapterFactory.getInstance();
```

```
ICollectionAdapter ngpAdaptor = adaptorFactory.getAdapter("RULE", null);
```

**DMS**

```
CollectionAdapterFactory adaptorFactory = CollectionAdapterFactory.getInstance();
```

```
ICollectionAdapter ngpAdaptor = adaptorFactory.getAdapter("DOC", null);
```

**EVENT(SMS/EMAIL)**

```
CollectionAdapterFactory adaptorFactory = CollectionAdapterFactory.getInstance();
```

```
ICollectionAdapter ngpAdaptor = adaptorFactory.getAdapter("EVENT", null);
```

**APPROVAL**

```
CollectionAdapterFactory adaptorFactory = CollectionAdapterFactory.getInstance();
```

```
ICollectionAdapter ngpAdaptor = adaptorFactory.getAdapter("APPROVAL", null);
```

## 2.4 Implementing a new Adapter

To implement a new adapter, follow the steps:

1. Create a new row in the `flx_fw_config_all_b` having values:
  - `PROP_ID` = [Name of the Host]\_HOST\_IMPL
  - `CATEGORY_ID` = 'CollectionAdapterFactory'
  - `PROP_VALUE` = new implementation class which should implement the `ICollectionAdapter`

- 
- ```
class
```
- FACTORY\_SHIPPED\_FLAG='N'
2. Write a new implementation class for implementation host.
  3. Create a new row in the flx\_fw\_config\_all\_b having values:
    - PROP\_ID =[[Name of the Host]\_HOST\_HELPER
    - CATEGORY\_ID= 'CollectionAdapterFactory'
    - PROP\_VALUE = new implementation class which should implement the ICollectionAdapterHelper class
    - FACTORY\_SHIPPED\_FLAG='N'
  4. Write a new implementation class for the helper host.
  5. Put appropriate summary, comments, version and date for fields PROP\_COMMENTS, SUMMARY\_TEXT, CREATED\_BY, CREATION\_DATE, LAST\_UPDATED\_BY.
  6. Put OBJECT\_STATUS\_FLAG = 'A' and OBJECT\_VERSION\_NUMBER = '1'.

The newly created implementation class may not require implementing all methods available in the ICollectionAdapter class. Hence, the methods that are not required to implement can be left blank. Similarly, the helper class implementation unused methods can have blank implementation.

Reference query to add new adapter entry:

```
INSERT INTO flx_fw_config_all_b
(PROP_ID, CATEGORY_ID, PROP_VALUE, FACTORY_SHIPPED_FLAG, PROP_COMMENTS,
SUMMARY_TEXT, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE,
OBJECT_STATUS_FLAG, OBJECT_VERSION_NUMBER)
VALUES
('RULE_HOST_IMPL', 'CollectionAdapterFactory',
'com.splwg.ccb.domain.externalservice.adapter.impl.CollectionNGPAdapter',
'y', 'Collection adapter data', 'Collection adapter data', 'ofssuser',
SYSDATE, 'ofssuser', SYSDATE, 'A', 1);
```



# 3 List of Collections Adapter APIs

Following Adapter APIs are available in Oracle Banking Enterprise Collections:

## 3.1 getSQLExpression

**Description:**

This method is used to fetch the condition created by using **Filter Author** OBP screen.

**Syntax:**

```
public String getSQLExpression(String filterId)
```

**Input:**

*Table 3–1 getSQLExpression Input Parameter*

| Parameter | Type   | Description                                                                                       | Mandatory |
|-----------|--------|---------------------------------------------------------------------------------------------------|-----------|
| filterId  | String | This is the name of the filter configured in OBP screen, Back Office > Rules > Filter Definition. | Y         |

**Output:**

*Table 3–2 getSQLExpression Output Type*

| Type   | Description                                    |
|--------|------------------------------------------------|
| String | Returns the SQL expression after where clause. |

**OBP Service Name:**

*Table 3–3 getSQLExpression OBP Service Classes*

|                              |                                           |
|------------------------------|-------------------------------------------|
| NGP Adapter Class Name       | CollectionRulesAdapter                    |
| Method name                  | getSQLExpression(String filterId)         |
| OBP Application Service Name | FilterDerivationApplicationService        |
| Method name                  | deriveSQLFilter(sessionContext, filterId) |

## 3.2 executeRule

**Description:**

This method is used to call the rule engine to process rules created in OBP.

**Syntax:**

```
public Map<String, RuleFactInfoDto> executeRule(String ruleId, String ruleEffectiveDate, List<RuleFactInfoDto> ruleFactInfoList, boolean isRuleSet)
```

**Input:**



**Table 3–4 executeRule Input Parameter**

| Parameter         | Type                  | Description                                                                               | Mandatory |
|-------------------|-----------------------|-------------------------------------------------------------------------------------------|-----------|
| ruleId            | String                | This is the name of the filter configured in OBP screen, Back Office->Rules->Rule Author. | Y         |
| ruleEffectiveDate | String                | Rule effective date.                                                                      | N         |
| ruleFactInfoList  | List<RuleFactInfoDto> | List of facts to be used in rule                                                          | N         |
| isRuleSet         | boolean               | Identifier for rule / rule set                                                            | Y         |

**Output:****Table 3–5 executeRule Output Type**

| Type                         | Description                |
|------------------------------|----------------------------|
| Map<String, RuleFactInfoDto> | Returns the rules outcome. |

**OBP Service Name:****Table 3–6 executeRule OBP Service Classes**

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| OBP Adapter Class Name       | CollectionRulesAdapter                                                                         |
| Method name                  | executeRule(String ruleId, String ruleEffectiveDate, FactInformationDTO[] factInformationDTOs) |
| OBP Application Service Name | RuleExecutionApplicationService                                                                |
| Method name                  | executeLatestRuleForGivenDate(sessionContext, ruleContext,null)                                |

## 3.3 retrieveJointAccountHolders

**Description:**

This method is used to retrieve the list of account holders for an account.

**Syntax:**

```
public List<String> retrieveJointAccountHolders(String accountId)
```

**Input:****Table 3–7 retrieveJointAccountHolders Input Parameter**

| Parameter | Type   | Description                        | Mandatory |
|-----------|--------|------------------------------------|-----------|
| accountId | String | Indicates the host account number. | Y         |

**Output:**

**Table 3–8 retrieveJointAccountHolders Output Type**

| Type         | Description                                                         |
|--------------|---------------------------------------------------------------------|
| List<String> | Returns the list of all account holders for the Account ID entered. |

**OBP Service Name:****Table 3–9 retrieveJointAccountHolders OBP Service Classes**

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| NGP Adapter Class Name       | PartyAccountRelationshipTypeAdapter                        |
| Method Name                  | fetchAllPartiesOfAccount(accountId)                        |
| OBP Application Service Name | PartyAccountRelationshipApplicationService                 |
| Method name                  | fetchAllPartiesOfAccount(fetchSessionContext(), accountId) |

## 3.4 retrieveJointAccountForParty

**Description:**

This method is used to retrieve joint account holders for a party.

**Syntax:**

```
public List<NgpAccountInformationBean> retrieveJointAccountForParty(String partyId)
```

**Input:****Table 3–10 retrieveJointAccountForParty Input Parameter**

| Parameter | Type   | Description                         | Mandatory |
|-----------|--------|-------------------------------------|-----------|
| partyId   | String | Indicates the host customer number. | Y         |

**Output:****Table 3–11 retrieveJointAccountForParty Output Type**

| Type                            | Description                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| List<NgpAccountInformationBean> | Returns the list of all Account Information Bean, where the input partyId is joint account holder. |

**OBP Service Name:****Table 3–12 retrieveJointAccountForParty OBP Service Classes**

|                              |                                                         |
|------------------------------|---------------------------------------------------------|
| NGP Adapter Class Name       | PartyAccountRelationshipTypeAdapter                     |
| Method Name                  | fetchAllAccountsOfParty(partyId)                        |
| OBP Application Service Name | PartyAccountRelationshipApplicationService              |
| Method name                  | fetchAllAccountsofParty(fetchSessionContext(), partyId) |

## 3.5 retrieveLinkedAccountInfoFromLoans

### Description:

This method is used to retrieve OBP linked account information for a loan account type.

### Syntax:

```
public NgpAccountInformationBean retrieveLinkedAccountInfoFromLoans(String accountId, Date
systemDate)
```

### Input:

*Table 3–13 retrieveLinkedAccountInfoFromLoans Input Parameter*

| Parameter  | Type                              | Description                        | Mandatory |
|------------|-----------------------------------|------------------------------------|-----------|
| accountId  | String                            | Indicates the host account number. | Y         |
| systemDate | com.splwg.base.api.datatypes.Date | Indicates the system date.         | Y         |

### Output:

*Table 3–14 retrieveLinkedAccountInfoFromLoans Output Type*

| Type                      | Description                                                       |
|---------------------------|-------------------------------------------------------------------|
| NgpAccountInformationBean | Retrieves linked account from account whose account type is LOAN. |

### OBP Service Name:

*Table 3–15 retrieveLinkedAccountInfoFromLoans OBP Service Classes*

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| NGP Adapter Class Name       | LinkedAccountInfoFromLoansAdapter                            |
| Method Name                  | inquireAccountInformation(accountId)                         |
| OBP Application Service Name | LoanAccountCollectionInformationApplicationService()         |
| Method name                  | inquireAccountInformation(fetchSessionContext(), accountId)) |

## 3.6 retrieveLinkedAccountInfoFromCasa

### Description:

This method is used to retrieve OBP linked account information whose account type is CASA.

### Syntax:

```
public NgpAccountInformationBean retrieveLinkedAccountInfoFromCasa(String accountId)
```

### Input:

*Table 3–16 retrieveLinkedAccountInfoFromCasa Input Parameter*

| Parameter | Type   | Description                        |
|-----------|--------|------------------------------------|
| accountId | String | Indicates the host account number. |

**Output:****Table 3–17 retrieveLinkedAccountInfoFromCasa Output Type**

| Type                      | Description                                                       |
|---------------------------|-------------------------------------------------------------------|
| NgpAccountInformationBean | Retrieves linked account from account whose account type is CASA. |

**OBP Service Name:****Table 3–18 retrieveLinkedAccountInfoFromCasa OBP Service Classes**

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| NGP Adapter Class Name       | LinkedAccountInfoFromCasaAdapter                      |
| Method Name                  | fetchAccountDetails(accountId)                        |
| OBP Application Service Name | DDAInquiryApplicationService                          |
| Method name                  | fetchAccountDetails(fetchSessionContext(), accountId) |

## 3.7 retrieveLinkedAccountInfoFromTD

**Description:**

This method is used to retrieve OBP linked account Information whose account type is TD.

**Syntax:**

```
public ArrayList<NgpAccountInformationBean> retrieveLinkedAccountInfoFromTD(String partyId)
```

**Input:****Table 3–19 retrieveLinkedAccountInfoFromTD Input Parameter**

| Parameter | Type   | Description                         | Mandatory |
|-----------|--------|-------------------------------------|-----------|
| partyId   | String | Indicates the host customer number. | Y         |

**Output:****Table 3–20 retrieveLinkedAccountInfoFromTD Output Type**

| Type                      | Description                                                     |
|---------------------------|-----------------------------------------------------------------|
| NgpAccountInformationBean | Retrieves linked account from account whose account Type is TD. |

**OBP Service Name:****Table 3–21 retrieveLinkedAccountInfoFromTD OBP Service Classes**

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
| NGP Adapter Class Name       | LinkedAccountInfoFromTDAdapter                             |
| Method Name                  | fetchAllAccountsForPartyId(partyId)                        |
| OBP Application Service Name | TermDepositAccountApplicationService                       |
| Method name                  | fetchAllAccountsForPartyId(fetchSessionContext(), partyId) |

## 3.8 fetchTDPrincipleBalance

### Description:

This method is used to fetch the principle balance whose account type is TD.

### Syntax:

```
public BigDecimal fetchTDPrincipleBalance(String accountId)
```

### Input:

*Table 3–22 fetchTDPrincipleBalance Input Parameter*

| Parameter | Type   | Description                         | Mandatory |
|-----------|--------|-------------------------------------|-----------|
| accountId | String | Indicates the host customer number. | Y         |

### Output:

*Table 3–23 fetchTDPrincipleBalance Output Type*

| Type       | Description                                |
|------------|--------------------------------------------|
| BigDecimal | Returns the Accounts TD principle balance. |

### OBP Service Name:

*Table 3–24 fetchTDPrincipleBalance OBP Service Classes*

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| NGP Adapter Class Name       | LinkedAccountBalanceFromTDAdapter                                 |
| Method Name                  | fetchAllDeposits(accountId,null)                                  |
| OBP Application Service Name | DepositApplicationService                                         |
| Method name                  | fetchAllDeposits(fetchSessionContext(), accountId, depositStatus) |

## 3.9 updateInCollectionIndicator

### Description:

This method is used to update the **InCollection** indicator for account extension.

### Syntax:

```
public boolean updateInCollectionIndicator(AccountExtension acctExtn)
```

### Input:

*Table 3–25 updateInCollectionIndicator Input Parameter*

| Parameter | Type                                                              | Description                              | Mandatory |
|-----------|-------------------------------------------------------------------|------------------------------------------|-----------|
| acctExtn  | com.splwg.ccb.domain.collection.accountExtension.AccountExtension | Indicates the collection account object. | Y         |

**Output:****Table 3–26 updateInCollectionIndicator Output Type**

| Type    | Description                                  |
|---------|----------------------------------------------|
| boolean | Returns true if update happens successfully. |

**OBP Service Name:****Table 3–27 updateInCollectionIndicator OBP Service Classes**

|                              |                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionAcctInCollectionAdapter                                                                                  |
| Method Name                  | updateInCollectionIndicator(RecoveryAccountDetailsDTO)<br>updateInCollectionIndicator(acctExtn.getAccountNumber()) |
| OBP Application Service Name | DDAWarningIndicatorApplicationService                                                                              |
| Method name                  | setRecoveryFlagWarningIndicator(sessionContext,<br>recoveryAccountDetailsDTO)                                      |

## 3.10 manualAccountWriteOffProcess

**Description:**

This method is used to perform full account write-off for manual write-off type. The method sets the write-off request date as business date for the accounts in Oracle Banking Enterprise Collections. The manual write-off involves approval and rejection mechanism by BPEL process.

**Syntax:**

```
public TransactionStatus manualAccountWriteOffProcess(String accountNumber)
```

**Input:****Table 3–28 manualAccountWriteOffProcess Input Parameter**

| Parameter     | Type   | Description                                                           | Mandatory |
|---------------|--------|-----------------------------------------------------------------------|-----------|
| accountNumber | String | Account Number as stored in the host system.<br>(Host Account Number) | Y         |

**Output:****Table 3–29 manualAccountWriteOffProcess Output Type**

| Type              | Description                           |
|-------------------|---------------------------------------|
| TransactionStatus | Returns the transactionStatus object. |

**OBP Service Name:**

**Table 3–30 manualAccountWriteOffProcess OBP Service Classes**

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| NGP Adapter Class Name       | AccountWriteOffProcessCallingAdapter                             |
| Method Name                  | callAccountWriteOffProcess(accountNumber)                        |
| OBP Application Service Name | AccountWriteOffProcessApplicationService                         |
| Method name                  | callAccountWriteOffProcess(fetchSessionContext(), accountNumber) |

## 3.11 perFormAccountFullWriteOff

### Description:

This method is used to perform full account write-off for STP write-off type. The method sets the write-off request date as business date for the accounts in Oracle Banking Enterprise Collections.

### Syntax:

```
public String perFormAccountFullWriteOff(String accountId, String accountType, String reason1, String reason2, String bankCode, String branchCode)
```

### Input:

**Table 3–31 perFormAccountFullWriteOff Input Parameter**

| Parameter   | Type   | Description                                                |
|-------------|--------|------------------------------------------------------------|
| accounted   | String | Indicates the account number as stored in the host system. |
| accountType | String | Indicates the account type (LN / TD / CS).                 |
| reason1     | String | Indicates the primary write-off reason.                    |
| reason2     | String | Indicates the secondary write-off reason.                  |
| bankCode    | String | Indicates the Bank Code.                                   |
| branchCode  | String | Indicates the Branch Code.                                 |

### Output:

**Table 3–32 perFormAccountFullWriteOff Output Type**

| Type   | Description                                       |
|--------|---------------------------------------------------|
| String | Returns null for success else returns error code. |

### OBP Service Name:

**Table 3–33 perFormAccountFullWriteOff OBP Service Classes**

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| NGP Adapter Class Name | CollectionAcctWriteOffAdapter                                        |
| Method Name            | perFormAccountFullWriteOff(accountId,accountType2, reason1, reason2) |

|                              |                                                                                  |
|------------------------------|----------------------------------------------------------------------------------|
| OBP Application Service Name | AccountWriteOffApplicationService                                                |
| Method name                  | performAccountFullWriteOff(sessionContext,accountId,accountType,reason1,reason2) |

## 3.12 invokePartyWarningIndicatorApplicationService

### Description:

This method is used to invoke **PartyWarning** indicator application service.

### Syntax:

```
public String invokePartyWarningIndicatorApplicationService(String partyId, String partyType,
String warningIndicatorType, boolean warningIndicatorValue)
```

### Input:

**Table 3–34 invokePartyWarningIndicatorApplicationService Input Parameter**

| Parameter             | Type    | Description                                                                                 |
|-----------------------|---------|---------------------------------------------------------------------------------------------|
| partyId               | String  | Indicates the host customer number.                                                         |
| partyType             | String  | Indicates the party type that is, IND (Individual), LEG (Legal), BAN (Bank), TRU (Trustee). |
| warningIndicatorType  | String  | Indicates the warning indicator type that is, DEC (Deceased).                               |
| warningIndicatorValue | Boolean | Warning Indicator Boolean Value                                                             |

### Output:

**Table 3–35 invokePartyWarningIndicatorApplicationService Output Type**

| Type   | Description                                       |
|--------|---------------------------------------------------|
| String | Returns null for success else returns error code. |

### OBP Service Name:

**Table 3–36 invokePartyWarningIndicatorApplicationService OBP Service Classes**

|                              |                                                                               |
|------------------------------|-------------------------------------------------------------------------------|
| NGP Adapter Class Name       | PartyWarningIndicatorAdapter                                                  |
| Method Name                  | publishPartyWarningIndicator(partyWarningIndicatorDTO)                        |
| OBP Application Service Name | PartyWarningIndicatorApplicationService                                       |
| Method name                  | publishPartyWarningIndicator(fetchSessionContext(), partyWarningIndicatorDTO) |

## 3.13 invokeContactPointApplicationService

### Description:

This method is used to invoke contact point application service.

### Syntax:



```
public String invokeContactPointApplicationService(String partyId, String ContactPreferenceType, String
contactPointType, boolean marketingConsentFlagValue, String determinantVal, Date
marketingConsentStartDt, Date marketingConsentEndDt, String purposeType)
```

**Input:****Table 3–37 invokeContactPointApplicationService Input Parameter**

| Parameter                 | Type                              | Description                                 |
|---------------------------|-----------------------------------|---------------------------------------------|
| partyId                   | String                            | Indicates the host customer number.         |
| contactPreferenceType     | String                            | Indicates the contact preference type.      |
| contactPointType          | String                            | Indicates the contact point type.           |
| marketingConsentFlagValue | Boolean                           | Indicates the marketing consent value.      |
| determinantVal            | String                            | Indicates the determinant value.            |
| marketingConsentStartDt   | com.splwg.base.api.datatypes.Date | Indicates the marketing consent start date. |
| marketingConsentEndDt     | com.splwg.base.api.datatypes.Date | Indicates the marketing consent end date.   |
| purposeType               | String                            | Indicates the purpose type.                 |

**Output:****Table 3–38 invokeContactPointApplicationService Output Type**

| Type   | Description                                       |
|--------|---------------------------------------------------|
| String | Returns null for success else returns error code. |

**OBP Service Name:****Table 3–39 invokeContactPointApplicationService OBP Service Classes**

|                              |                                                           |
|------------------------------|-----------------------------------------------------------|
| NGP Adapter Class Name       | ContactPointAdapter                                       |
| Method Name                  | updateContactPoint(contactPointDTO)                       |
| OBP Application Service Name | contactPointApplicationService                            |
| Method name                  | fetchContactPoint(fetchSessionContext(), contactPointDto) |

## 3.14 addHardshipReliefRequest

**Description:**

This method is used to add a hardship relief request.

**Syntax:**

```
public String addHardshipReliefRequest(List acctId, String partyId, String applicationId, String
initiatedBy, String reliefEffectiveDt, String reliefExpiryDt, String applicationDt, String startDt, String endDt,
String expiryDt, String approvedDate, String approvedBy)
```

**Input:****Table 3–40 addHardshipReliefRequest Input Parameter**

| Parameter         | Type   | Description                                                     | Mandatory |
|-------------------|--------|-----------------------------------------------------------------|-----------|
| partyId           | String | Indicates the host customer number.                             | Y         |
| applicationId     | String | Indicates the application ID.                                   | Y         |
| initiatedBy       | String | Indicates the individual who initiated hardship relief request. | Y         |
| reliefEffectiveDt | String | Indicates the relief effective date.                            | Y         |
| reliefExpiryDt    | String | Indicates the relief expiry date.                               | Y         |
| acctId            | List   | Indicates the account ID.                                       | Y         |
| applicationDt     | String | Indicates the application date.                                 | Y         |
| startDt           | String | Indicates the start date.                                       | Y         |
| endDt             | String | Indicates the end date.                                         | Y         |
| expiryDt          | String | Indicates the expiry date.                                      | Y         |
| approvedDate      | String | Indicates the approved date.                                    | Y         |
| approvedBy        | String | Indicates the approver name.                                    | Y         |

**Output:****Table 3–41 addHardshipReliefRequest Output Type**

| Type   | Description                                       |
|--------|---------------------------------------------------|
| String | Returns null for success else returns error code. |

**OBP Service Name:****Table 3–42 addHardshipReliefRequest OBP Service Classes**

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| NGP Adapter Class Name       | HardshipReliefRequestAdapter                                              |
| Method Name                  | addHardshipReliefRequest(hardshipReliefRequestDTO)                        |
| OBP Application Service Name | HardshipReliefRequestApplicationService                                   |
| Method name                  | addHardshipReliefRequest(fetchSessionContext(), hardshipReliefRequestDTO) |

## 3.15 updateHardshipReliefRequest

**Description:**

This method is used to update the hardship relief request.

**Syntax:**

```
public String updateHardshipReliefRequest(String applicationId, String partyId, String
hardshipReliefUpdataionType, Date hardshipExtensionDate)
```

**Input:****Table 3–43 updateHardshipReliefRequest Input Parameter**

| Parameter                   | Type                              | Description                            | Mandatory |
|-----------------------------|-----------------------------------|----------------------------------------|-----------|
| partyId                     | String                            | Indicates the host customer number.    | Y         |
| applicationId               | String                            | Indicates the application ID.          | Y         |
| hardshipReliefUpdataionType | String                            | Indicates the relief update type.      | Y         |
| hardshipExtensionDate       | com.splwg.base.api.datatypes.Date | Indicates the hardship extension date. | Y         |

**Output:****Table 3–44 updateHardshipReliefRequest Output Type**

| Type   | Description                                        |
|--------|----------------------------------------------------|
| String | Returns null for success, else returns error code. |

**OBP Service Name:****Table 3–45 updateHardshipReliefRequest OBP Service Classes**

|                              |                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | HardshipReliefRequestAdapter                                                                                               |
| Method Name                  | updateHardshipReliefRequest(applicationId, partyId, hardshipReliefUpdataionType, (hardshipExtensionDate!=null))            |
| OBP Application Service Name | HardshipReliefRequestApplicationService                                                                                    |
| Method name                  | updateHardshipReliefRequest(fetchSessionContext(), applicationId, partyId, HardshipReliefUpdataionType.Cancellation, null) |

## 3.16 generateDocument

**Description:**

This method is used to generate document. It takes input as **CollOutboundDocumentRequestDTO** for which the required parameters are Customer ID (Party ID in OBP host), Customer Contact ID and Template ID (Document Type in OBP host). The parameters specific to report can be specified in **CollReportRequestDTO** in form of key value pairs. Document is generated for given Document Type using configured parameters and is stored on server.

Also, the search indexes are created for PARTY\_ID and CUSTOMER\_CONTACT\_ID.  
CollDocumentGenerationResponse is response to document generation process, which contains generated document id.

**Syntax:**

```
Public CollDocumentGenerationResponse generateDocument(CollOutboundDocumentRequestDTO
outboundDocumentRequestDTO)
```

**Input:****Table 3–46 generateDocument Input Parameter**

| Parameter                  | Type                           | Description                                                                                                                                                       | Mandatory |
|----------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| outboundDocumentRequestDTO | CollOutboundDocumentRequestDTO | Request object for document generation. Mandatory fields are HOST CUSTOMER ID (PARTY ID in OBP host), CUSTOMER CONTACT ID TEMPLATE ID (DOCUMENT TYPE in OBP host) | Y         |

**Output:****Table 3–47 generateDocument Output Type**

| Type                           | Description                        |
|--------------------------------|------------------------------------|
| CollDocumentGenerationResponse | It contains generated Document ID. |

**OBP Service Name:****Table 3–48 generateDocument OBP Service Classes**

|                              |                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDMSAdapter                                                                                         |
| Method Name                  | generateDocument(OutboundDocumentRequestDTO<br>outboundDocumentRequestDTO)                                   |
| OBP Application Service Name | OutboundDocumentApplicationService                                                                           |
| Method name                  | generateDocument(SessionContext<br>sessionContext, OutboundDocumentRequestDTO<br>outboundDocumentRequestDTO) |

## 3.17 generateAndDeliverDocument

**Description:**

This method is responsible to generate and deliver document to the respective customer.

It takes input as CollOutboundDocumentRequestDTO, for which the required parameters are Customer ID (Party ID in OBP host), Customer Contact ID and Template ID (Document Type in OBP host). Parameters specific to report can be specified in the CollReportRequestDTO in form of key-value pairs, which are optional. Document is generated for given Document Type using configured Parameters and is stored on server.

Also, search indexes are created for PARTY\_ID and CUSTOMER\_CONTACT\_ID. Further, contact preferences and delivery channel are resolved based on given Customer ID. Document is delivered to respective Customer.

CollOutboundDocumentResponse is returned as response, which holds CollDocumentGenerationResponse and CollDocumentDeliveryResponse.

CollDocumentGenerationResponse is response to document generation process, which contains generated document id.

**Syntax:**

```
public CollOutboundDocumentResponse generateAndDeliverDocument
(CollOutboundDocumentRequestDTO collOutboundDocumentRequestDTO)
```

**Input:**

**Table 3–49 generateAndDeliverDocument Input Parameter**

| Parameter                          | Type                               | Description                                                                                                                                                              | Mandatory |
|------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| collOutboundDocumentRequestDT<br>O | CollOutboundDocumentRequestDT<br>O | Request object for document generation. Mandatory fields are HOST CUSTOMER ID (PARTY ID in OBP host), CUSTOMER CONTACT ID<br><br>TEMPLATE ID (DOCUMENT TYPE in OBP host) | Y         |

**Output:**

**Table 3–50 generateAndDeliverDocument Output Type**

| Type                           | Description                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------|
| CollDocumentGenerationResponse | Response objects for document generation and delivery. It contains generated document Id. |

**OBP Service Name:**

**Table 3–51 generateAndDeliverDocument OBP Service Classes**

|                                |                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name         | CollectionDMSAdapter                                                                                   |
| Method Name                    | generateAndDeliverDocument(OutboundDocumentRequestDTO outboundDocumentRequestDTO)                      |
| OBP Application Service Name 1 | OutboundDocumentApplicationService                                                                     |
| Method name                    | generateDocument(SessionContext sessionContext, OutboundDocumentRequestDTO outboundDocumentRequestDTO) |
| OBP Application Service Name 2 | OutboundDocumentDeliveryApplicationService                                                             |
| Method name                    | deliverDocumentForParty(SessionContext sessionContext, DocumentDTO documentDTO)                        |

## 3.18 registerEventsForActivity

### Description:

This method is used to register events for activities.

### Syntax:

public String registerEventsForActivity(AlertDTO alertDTO) throws Exception

### Inputs:

**Table 3–52 registerEventsForActivity Input Parameter**

| Parameter | Type                                                            | Description              | Mandatory |
|-----------|-----------------------------------------------------------------|--------------------------|-----------|
| alertDTO  | com.splwg.ccb.domain.externalservice.adapter.dto.alert.AlertDTO | Indicates the Alert DTO. | Y         |

### Output:

**Table 3–53 registerEventsForActivity Output Type**

| Type   | Description                                       |
|--------|---------------------------------------------------|
| String | Returns null for success else returns error code. |

### OBP Service Name:

**Table 3–54 registerEventsForActivity OBP Service Classes**

|                              |                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionAlertAdapter                                                                                   |
| Method Name                  | registerEventsForActivity(alertDTO.getActivityId(), collectionAlertDTO)                                  |
| OBP Application Service Name | ActivityRegistrationApplicationService                                                                   |
| Method name                  | registerActivityAndGenerateConfiguredEvents(fetchSessionContext(), activityId, collectionActivityLogDTO) |

## 3.19 fetchProductGroupDetailsOnBusinessUnit

### Description:

This method is used to fetch product group details.

### Syntax:

```
public ReliefTypesHelperDTO fetchProductGroupDetailsOnBusinessUnit(String productGroupCode, String businessUnit)
```

### Input:

*Table 3–55 fetchProductGroupDetailsOnBusinessUnit Input Parameter*

| Parameter        | Type   | Description                       | Mandatory |
|------------------|--------|-----------------------------------|-----------|
| productGroupCode | String | Indicates the product group code. | Y         |
| businessUnit     | String | Indicates the business unit.      | Y         |

### Output:

*Table 3–56 fetchProductGroupDetailsOnBusinessUnit Output Type*

| Type                 | Description                          |
|----------------------|--------------------------------------|
| ReliefTypesHelperDTO | Returns ReliefTypesHelperDTO object. |

### OBP Service Name:

*Table 3–57 fetchProductGroupDetailsOnBusinessUnit OBP Service Classes*

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | ProductManufacturingAdapter                                                                   |
| Method Name                  | fetchProductGroupDetailsOnBusinessUnit (productGroupCode,businessUnit)                        |
| OBP Application Service Name | ProductManufacturingApplicationService                                                        |
| Method name                  | fetchProductGroupDetailsOnBusinessUnit(fetchSessionContext(), productGroupCode, businessUnit) |

## 3.20 populateHelperDTO

### Description:

This method is used to populate the helper DTO.

### Syntax:

```
private ReliefTypesHelperDTO populateHelperDTO (HardshipPolicyDTOhardshipPolicyDTO, creditPolicyDTO(CreditPolicyTemplateDTO),CreditPolicyTemplateDTO[]creditPolicyDTO[])
```

### Input:

**Table 3–58 populateHelperDTO Input Parameter**

| Parameter         | Type                                                                | Description                  | Mandatory |
|-------------------|---------------------------------------------------------------------|------------------------------|-----------|
| hardshipPolicyDTO | com.ofss.fc.app.pm.dto.hardship.HardshipPolicyDTO                   | Indicates hardshipPolicyDTO. | Y         |
| creditPolicyDTO   | com.ofss.fc.app.pm.dto.creditpolicytemplate.CreditPolicyTemplateDTO | Indicates the credit policy. | Y         |

**Output:****Table 3–59 populateHelperDTO Output Type**

| Type                 | Description                          |
|----------------------|--------------------------------------|
| ReliefTypesHelperDTO | Returns ReliefTypesHelperDTO object. |

**OBP Service Name:****Table 3–60 populateHelperDTO OBP Service Classes**

|                              |  |
|------------------------------|--|
| NGP Adapter Class Name       |  |
| Method Name                  |  |
| OBP Application Service Name |  |
| Method name                  |  |

## 3.21 paymentTransferROSO

**Description:**

This method is used to perform payment transfer for Right of Set-off (ROSO) process.

Payments performed are:

Term Loan to Demand Deposit Account

Term Loan to Term Deposit Account - It is a two step process,

First, the funds are transferred from Term Deposit to Ledger account and then from Ledger account to Term Loan account.

Overdraft to Demand Deposit Account

Overdraft to Term Deposit Account

**Syntax:**

```
public Map<String, String> paymentTransferROSO(String delinquentAcctId, String hostProductClassCd,
String targetAccountnumber, String amountToDeduct, String targetProductCode, String currencyCode,
String processDate, String glAccount, String depositId)
```

**Input:**



**Table 3–61 paymentTransfer Input Parameter**

| Parameter           | Type   | Description                                                                                                                                                                           | Mandatory |
|---------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| delinquentAcctId    | String | Delinquent (Term Loan/Overdraft) account in which funds needs to be credited.                                                                                                         | Y         |
| hostProductClassCd  | String | Indicates the host product class code of delinquent account.                                                                                                                          | Y         |
| targetAccountnumber | String | Indicates the target (Demand Deposit/Term Deposit) account number from which funds needs to be transferred.                                                                           | Y         |
| amountToDeduct      | String | Indicates the amount of funds to be transferred.                                                                                                                                      | Y         |
| targetProductCode   | String | Indicates the product code of target account.                                                                                                                                         | Y         |
| currencyCode        | String | Currency in which funds are transferred.                                                                                                                                              | Y         |
| processDate         | String | Date on which funds are transferred                                                                                                                                                   | Y         |
| glAccount           | String | Ledger account number. It is used when funds are transferred from Term Deposit to Term Loan account.<br>Mandatory, when funds are transferred from Term Deposit to Term Loan account. | N         |
| depositId           | String | Mandatory when funds are transferred from Term Deposit account.                                                                                                                       | N         |

**Output:****Table 3–62 paymentTransfer Output Type**

| Type                | Description                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Map<String, String> | Payment transaction response. It is a map of status code and transaction Id (key = status code, value= transaction Id).<br>Status Code '0' represents successful transaction. |

**OBP Service Name:****Table 3–63 paymentTransfer OBP Service Classes**

|                              |                                                                                                                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | PerformPaymentAdapter                                                                                                                                                                        |
| Method Name 1                | doInstallmentPayment(String accountId, TransactionDetailsDTO transactionDetailsDTO, int advancePaymentCounter, ComponentPreferenceDTO componentPreferenceDTO)                                |
| OBP Application Service Name | LoanInstallmentPaymentApplicationService                                                                                                                                                     |
| Method name                  | doInstallmentPayment(SessionContext sessionContext, String accountId, TransactionDetailsDTO transactionDetailsDTO, int advancePaymentCounter, ComponentPreferenceDTO componentPreferenceDTO) |
| Method Name 2                | transferFundsToBeneficiaries(FundTransferTransactionDTO                                                                                                                                      |

|                              |                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | fundsTransferTransactionDTO)                                                                                                                    |
| OBP Application Service Name | DemandDepositFundsTransferService                                                                                                               |
| Method name                  | transferFundsToBeneficiaries(SessionContext sessionContext ,FundTransferTransactionDTO undsTransferTransactionDTO)                              |
| Method Name 3                | inquireAndDoRedemption(RedemptionRequestDTO redemptionRequestDTO, ComponentPreferenceDTO componentPreferenceDTO)                                |
| OBP Application Service Name | TermDepositRedemptionApplicationService                                                                                                         |
| Method name                  | inquireAndDoRedemption(SessionContext sessionContext ,RedemptionRequestDTO redemptionRequestDTO, ComponentPreferenceDTO componentPreferenceDTO) |

## 3.22 save

### Description:

This method is used to perform save operation.

### Syntax:

```
public String save(List acctId, String partyId, String applicationId, String initiatedBy, String reliefEffectiveDt, String reliefExpiryDt, String applicationDt, String startDt, String endDt, String expiryDt, String approvedDate, String approvedBy)
```

### Input:

**Table 3–64 save Input Parameter**

| Parameter         | Type   | Description                         | Mandatory |
|-------------------|--------|-------------------------------------|-----------|
| acctId            | String | Indicates the host account number.  | Y         |
| partyId           | String | Indicates the host customer number. | Y         |
| applicationId     | String | Indicates the application ID.       | Y         |
| initiatedBy       | String | Indicates the initiator name.       | Y         |
| reliefEffectiveDt | String | Indicates the effective date.       | Y         |
| reliefExpiryDt    | String | Indicates the relief expiry date.   | Y         |
| applicationDt     | String | Indicates the application date.     | Y         |
| startDt           | String | Indicates the start date.           | Y         |
| endDt             | String | Indicates the end date.             | Y         |
| expiryDt          | String | Indicates the expiry date.          | Y         |
| approvedDate      | String | Indicates the approved date.        | Y         |
| approvedBy        | String | Indicates the approver name.        | Y         |

### Output:

**Table 3–65 save Output Type**

| Type   | Description                                       |
|--------|---------------------------------------------------|
| String | Returns null for success else returns error code. |

**OBP Service Name:****Table 3–66 save OBP Service Classes**

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| NGP Adapter Class Name       | HardshipReliefAssistanceApplyAdapter                  |
| Method Name                  | save(hardshipReliefRequestDTO)                        |
| OBP Application Service Name | HardshipReliefAssistanceApplicationService            |
| Method name                  | save(fetchSessionContext(), hardshipReliefRequestDTO) |

## 3.23 initiateRosoProcessForApprovalProcess

**Description:**

This method is used to create approval request for ROSO process.

**Syntax:**

```
public boolean initiateRosoProcessForApprovalProcess(RosoApprovalRequestDTO
rosoApprovalRequestDTO) throws Exception
```

**Input:****Table 3–67 initiateProcessForApproval Input Parameter**

| Parameter              | Type                                                                    | Description        | Mandatory |
|------------------------|-------------------------------------------------------------------------|--------------------|-----------|
| rosoApprovalRequestDTO | com.splwg.ccb.domain.externalservice.adapter.dto.RosoApprovalRequestDTO | Indicates the DTO. | Y         |

**Output:****Table 3–68 initiateProcessForApproval Output Type**

| Type    | Description                                  |
|---------|----------------------------------------------|
| boolean | Returns true for success else, return false. |

**OBP Service Name:****Table 3–69 initiateProcessForApproval OBP Service Classes**

|                        |                                      |
|------------------------|--------------------------------------|
| NGP Adapter Class Name | ROSOProcessForApprovalCallingAdapter |
|------------------------|--------------------------------------|

|                              |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| Method Name                  | callApproval(approvalRequestDTO)                                         |
| OBP Application Service Name | ROSOProcessForApprovalApplicationService                                 |
| Method name                  | callApproval(fetchSessionContext(),<br>rosoProcessForApprovalRequestDTO) |

## 3.24 getFactDetailsForRule

### Description:

This method is used to retrieve all facts for a rule. The response object contains details, such as name and data type of each fact. RuleSet is not supported.

### Syntax:

```
public CollRuleFactDetailsInquiryResponse getFactDetailsForRule(String ruleId, String effectiveDate,
Boolean isRuleSet)
```

### Input:

**Table 3–70 getFactDetailsForRule Input Parameter**

| Parameter     | Type    | Description                                            | Mandatory |
|---------------|---------|--------------------------------------------------------|-----------|
| ruleId        | String  | Rule ID for which fact information is to be retrieved. | Y         |
| effectiveDate | String  | Indicates the effective rule date.                     | N         |
| isRuleSet     | Boolean | Indicates the flag for Ruleset.                        |           |

### Output:

**Table 3–71 getFactDetailsForRule Output Type**

| Type                               | Description                                                                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CollRuleFactDetailsInquiryResponse | Response contains details of all facts for a Rule.<br>CollRuleFactDetailsInquiryResponse object wraps list of CollFactDetailsDTO, which holds fact information.<br>CollFactDetailsDTO contains name and dataType of fact. |

### OBP Service Name:

**Table 3–72 getFactDetailsForRule OBP Service Classes**

|                              |                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionRulesAdapter                                                                  |
| Method Name                  | getFactDetailsForRule(String ruleId, String effectiveDate)                              |
| OBP Application Service Name | RuleMaintenanceApplicationService                                                       |
| Method name                  | getFactDetailsForRule(SessionContext sessionContext, String ruleId, Date effectiveDate) |

## 3.25 executeRuleWithPrePopulatedFactDetails

### Description:

This method is used to execute rule or ruleset. It requires all required fact details for execution as input.

### Syntax:

```
public Map<String, RuleFactInfoDto> executeRuleWithPrePopulatedFactDetails(String ruleId, String ruleEffectiveDate, List<RuleFactInfoDto> ruleFactInfoList, boolean isRuleSet)
```

### Input:

**Table 3–73 executeRuleWithPrePopulatedFactDetails Input Parameter**

| Parameter         | Type                  | Description                                                                             | Mandatory |
|-------------------|-----------------------|-----------------------------------------------------------------------------------------|-----------|
| ruleId            | String                | Indicates the rule or ruleset ID to be executed.                                        | Y         |
| ruleEffectiveDate | String                | Indicates the rule or ruleset effective date.                                           | N         |
| ruleFactInfoList  | List<RuleFactInfoDto> | Indicates the list of Rule/Ruleset facts required for execution.                        | Y         |
| isRuleSet         | Boolean               | Boolean flag indicating if given id is of Rule/ RuleSet. Send true to execute rule set. | Y         |

### Output:

**Table 3–74 executeRuleWithPrePopulatedFactDetails Output Type**

| Type                         | Description                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Map<String, RuleFactInfoDto> | Rule/RuleSet execution response. It contains response facts details.<br>Key = fact name and<br>Value = RuleFactInfoDto object holding facts details. |

### OBP Service Name:

**Table 3–75 executeRuleWithPrePopulatedFactDetails OBP Service Classes**

|                              |                                                                                                            |
|------------------------------|------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionRulesAdapter                                                                                     |
| Method Name 1                | executeRule(String ruleId, String ruleEffectiveDate, FactInformationDTO[] factInformationDTOs)             |
| OBP Application Service Name | RuleExecutionApplicationService                                                                            |
| Method name                  | executeLatestRuleForGivenDate(SessionContext sessionContext, RuleContext ruleContext, Date executeForDate) |
| Method Name 2                | executeRuleSet(SessionContext sessionContext, RuleContext ruleContext)                                     |

## 3.26 updateCollateralRealizationStatus

### Description:

This method is used to update collateral realization status.

### Syntax:

```
public void updateCollateralRealizationStatus(CollateralStatusReaiizationUpdate_DTO
collateralStatusReaiizationUpdate_DTO) throws Exception
```

### Input:

*Table 3–76 updateCollateralRealizationStatus Input Parameter*

| Parameter                             | Type                                  | Description        | Mandatory |
|---------------------------------------|---------------------------------------|--------------------|-----------|
| collateralStatusReaiizationUpdate_DTO | CollateralStatusReaiizationUpdate_DTO | Indicates the DTO. | Y         |

### Output:

*Table 3–77 updateCollateralRealizationStatus Output Type*

| Type | Description |
|------|-------------|
| void | No output   |

### OBP Service Name:

*Table 3–78 updateCollateralRealizationStatus OBP Service Classes*

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollateralUpdateRealizationAdapter                                           |
| Method Name                  | updateCollateralRealization(collateralrealizationdto)                        |
| OBP Application Service Name | CollateralRealizationApplicationService                                      |
| Method name                  | updateCollateralRealization(fetchSessionContext(), collateralRealizationDTO) |

## 3.27 abortCompositeInstancesByTitle

### Description:

This method is used to abort composite instance by title, that is for cancelling the approval workflow.

### Syntax:

```
public boolean abortCompositeInstancesByTitle(WorkflowManager_DTOworkflowManager_DTO)
```

### Input:

*Table 3–79 abortCompositeInstancesByTitle Input Parameter*

| Parameter           | Type                | Description        | Mandatory |
|---------------------|---------------------|--------------------|-----------|
| workflowManager_DTO | WorkflowManager_DTO | Indicates the DTO. | Y         |

### Output:

**Table 3–80 abortCompositelInstancesByTitle Output Type**

| Type    | Description                                 |
|---------|---------------------------------------------|
| boolean | Returns true for success else return false. |

**OBP Service Name:****Table 3–81 abortCompositelInstancesByTitle OBP Service Classes**

|                              |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| NGP Adapter Class Name       | WorkflowManagerCallingAdapter                                                     |
| Method Name                  | abortCompositelInstancesByTitle(workflowManagerDto)                               |
| OBP Application Service Name | WorkflowManagerApplicationService                                                 |
| Method name                  | abortCompositelInstancesByTitle(fetchSessionContext(), workflowManagerWrapperDTO) |

## 3.28 sendMail

**Description:**

This method is used to send e-mails.

**Syntax:**

```
public TransactionStatus sendMail(Map mailParams) throws Exception
```

**Input:****Table 3–82 sendMail Input Parameter**

| Parameter  | Type          | Description            | Mandatory |
|------------|---------------|------------------------|-----------|
| mailParams | Java.util.Map | CollOugtBoundDocReqDto | Y         |

**Output:****Table 3–83 sendMail Output Type**

| Type              | Description                          |
|-------------------|--------------------------------------|
| TransactionStatus | It returns TransactionStatus object. |

**OBP Service Name:****Table 3–84 sendMail OBP Service Classes**

|                              |                                               |
|------------------------------|-----------------------------------------------|
| NGP Adapter Class Name       | inCollectionAdapter                           |
| Method Name                  | sendEmail(adhocActionDTO)                     |
| OBP Application Service Name | ActionLogApplicationService                   |
| Method name                  | processAdhocAction(sessionContext, adhocData) |

## 3.29 getFinancialDates

### Description:

This method is used to fetch the financial dates.

### Syntax:

```
public FinancialDatesDTO getFinancialDates(String bankCode, String branchCode) throws Exception
```

### Input:

**Table 3–85 getFinancialDates Input Parameter**

| Parameter  | Type   | Description | Mandatory |
|------------|--------|-------------|-----------|
| bankCode   | String | Bank code   | Y         |
| branchCode | String | Branch code | Y         |

### Output:

**Table 3–86 getFinancialDates Output Type**

| Type              | Description                                                           |
|-------------------|-----------------------------------------------------------------------|
| FinancialDatesDTO | Returns FinancialDatesDTO object, which contains the financial dates. |

### OBP Service Name:

**Table 3–87 getFinancialDates OBP Service Classes**

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| NGP Adapter Class Name       | collectionDateManagerAdapter                           |
| Method Name                  | getFinancialDates(bankCode, branchCode)                |
| OBP Application Service Name | CoreApplicationService                                 |
| Method name                  | fetchBranchDates(sessionContext, bankCode, branchCode) |

## 3.30 fetchTermDepositDetails

### Description:

This method is used to fetch all associated deposits of a Term Deposit account.

### Syntax:

```
public List<HostDepositDetailsDTO> fetchTermDepositDetails(String accountNumber)
```

### Input:

**Table 3–88 fetchTermDepositDetails Input Parameter**

| Parameter     | Type   | Description                                                                       | Mandatory |
|---------------|--------|-----------------------------------------------------------------------------------|-----------|
| accountNumber | String | Term Deposit account number, whose associated deposit details need to be fetched. | Y         |



**Output:****Table 3–89 fetchTermDepositDetails Output Type**

| Type                        | Description                                                |
|-----------------------------|------------------------------------------------------------|
| List<HostDepositDetailsDTO> | List of all associated Deposits of a Term Deposit account. |

**OBP Service Name:****Table 3–90 fetchTermDepositDetails OBP Service Classes**

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | LinkedAccountBalanceFromTDAadapter                                                            |
| Method Name                  | fetchAllDepositDetails(String accountId, DepositStatus depositStatus)                         |
| OBP Application Service Name | DepositApplicationService                                                                     |
| Method name                  | fetchAllDeposits(SessionContextsessionContext, String accountId, DepositStatus depositStatus) |

## 3.31 fetchTDAccount

**Description:**

This method is used to fetch term deposit account details along with all its associated deposits.

**Syntax:**

```
public NgpAccountInformationBean fetchTDAccount(String accountNumber)
```

**Input:****Table 3–91 fetchTDAccount Input Parameter**

| Parameter     | Type   | Description                                                 | Mandatory |
|---------------|--------|-------------------------------------------------------------|-----------|
| accountNumber | String | Term Deposit account number, whose details need to fetched. | Y         |

**Output:****Table 3–92 fetchTDAccount Output Type**

| Type                      | Description                                                                  |
|---------------------------|------------------------------------------------------------------------------|
| NgpAccountInformationBean | Response containing Term Deposit account and its associated deposit details. |

**OBP Service Name:****Table 3–93 fetchTDAccount OBP Service Classes**

|                        |                                 |
|------------------------|---------------------------------|
| NGP Adapter Class Name | LinkedAccountInfoFromTDAadapter |
|------------------------|---------------------------------|

|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| Method Name                  | fetchAccount(String accountNumber)                                                       |
| OBP Application Service Name | TermDepositAccountApplicationService                                                     |
| Method name                  | fetchAccount(SessionContext sessionContext, TermDepositAccountDTO termDepositAccountDTO) |

## 3.32 initiateHardshipForApprovalProcess

### Description:

This method is used to create approval request for hardship.

### Syntax:

Public boolean initiateHardshipForApprovalProcess(HardshipApprovalRequestDTO hardshipApprovalRequestDTO)

### Input:

**Table 3–94 initiateHardshipForApprovalProcess Input Parameter**

| Parameter                      | Type                           | Description                      | Mandatory |
|--------------------------------|--------------------------------|----------------------------------|-----------|
| hardshipApprovalRequestDT<br>O | HardshipApprovalRequestDT<br>O | HardshipApprovalRequest<br>t DTO | Y         |

### Output:

**Table 3–95 initiateHardshipForApprovalProcess Output Type**

| Type    | Description              |
|---------|--------------------------|
| boolean | Returns true if success. |

### OBP Service Name:

**Table 3–96 initiateHardshipForApprovalProcess OBP Service Classes**

|                              |                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | HardshipProcessForApprovalCallingAdapter                                                                     |
| Method Name                  | callApproval(HardshipProcessForApprovalRequestDTO approvalRequestDTO)                                        |
| OBP Application Service Name | HardshipProcessForApprovalApplicationService                                                                 |
| Method name                  | callApproval(SessionContext sessionContext, HardshipApprovalRequestDTO hardshipProcessForApprovalRequestDTO) |

## 3.33 updateIndividualDemographics

### Description:

This method is used to modify individual party demographics details.

**Syntax:**

```
public boolean updateIndividualDemographics(CollectionIndividualDemographicsDTO
collectionIndividualDemographicsDTO)
```

**Input:****Table 3–97 updateIndividualDemographics Input Parameter**

| Parameter                           | Type                                | Description                         | Mandatory |
|-------------------------------------|-------------------------------------|-------------------------------------|-----------|
| collectionIndividualDemographicsDTO | CollectionIndividualDemographicsDTO | CollectionIndividualDemographicsDTO | Y         |

**Output:****Table 3–98 updateIndividualDemographics Output Type**

| Type    | Description              |
|---------|--------------------------|
| boolean | Returns true if success. |

**OBP Service Name:****Table 3–99 updateIndividualDemographics OBP Service Classes**

|                              |                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionPartyDemographicsAdapter                                                                          |
| Method Name                  | updateIndividualDemographics (IndividualDemographicsDTO individualDemographicsDTO)                          |
| OBP Application Service Name | PartyDemographicsApplicationService                                                                         |
| Method name                  | updateIndividualDemographics(SessionContext sessionContext, IndividualDemographicsDTO partyDemographicsDTO) |

## 3.34 isWorkingDay

**Description:**

This method is used to validate the given date. It returns true if the given date is valid business date and returns false if the given date is not a business date or holiday.

**Syntax:**

```
public boolean isWorkingDay(Date date)
```

**Input:****Table 3–100 isWorkingDay Input Parameter**

| Parameter | Type | Description | Mandatory |
|-----------|------|-------------|-----------|
| date      | Date | Input date  | Y         |

**Output:**

**Table 3–101 isWorkingDay Output Type**

| Type    | Description                                                                                                          |
|---------|----------------------------------------------------------------------------------------------------------------------|
| boolean | Returns true if given date is valid business date and returns false if given date is not a business date or holiday. |

**OBP Service Name:****Table 3–102 isWorkingDay OBP Service Classes**

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| NGP Adapter Class Name | CollectionDateManagerDataAdapter                        |
| Method Name            | isWorkingDay(Date date)                                 |
| OBP Adapter name       | ICalendarServiceAdapter.                                |
| Method name            | isValidPostingDate(String branchCode, Date postingDate) |

### 3.35 deleteWorklistItemForApplicationId

**Description:**

This method is used to delete the work list item for a give application and party.

**Syntax:**

```
public void deleteWorklistItemForApplicationId(String applicationId, String partyId)
```

**Input:****Table 3–103 deleteWorklistItemForApplicationId Input Parameter**

| Parameter     | Type   | Description    | Mandatory |
|---------------|--------|----------------|-----------|
| applicationId | String | Application id | Y         |
| partyId       | String | Party Id       | Y         |

**Output:****Table 3–104 deleteWorklistItemForApplicationId Output Type**

| Type | Description |
|------|-------------|
| Void |             |

**OBP Service Name:****Table 3–105 deleteWorklistItemForApplicationId OBP Service Classes**

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| NGP Adapter Class Name | HardshipReliefRequestAdapter                                                    |
| Method Name            | deleteWorklistItemForTransactionReference(String applicationId, String partyId) |

|                              |                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------|
| OBP Application Service Name | WorkListApplicationService                                                            |
| Method name                  | deleteWorkItemForTransactionReferenceNumber((sessionContext, varWorkItemDTO.getId())) |

### 3.36 createPTPInPendingOrPendingForApprovalState

#### Description:

This method is used to create Promise To Pay (PTP) in Pending or Pending for Approval Status. It makes an APM call to decide the status.

#### Syntax:

```
Public boolean createPTPInPendingOrPendingForApprovalState(PromiseToPayWrapperDTO
ptpWrapperDTO)
```

#### Input:

*Table 3–106 createPTPInPendingOrPendingForApprovalState Input Parameter*

| Parameter     | Type                   | Description             | Mandatory |
|---------------|------------------------|-------------------------|-----------|
| ptpWrapperDTO | PromiseToPayWrapperDTO | PromiseToPayWrapper DTO | Y         |

#### Output:

*Table 3–107 createPTPInPendingOrPendingForApprovalState Output Type*

| Type    | Description             |
|---------|-------------------------|
| boolean | Returns true if success |

#### OBP Service Name:

*Table 3–108 createPTPInPendingOrPendingForApprovalState OBP Service Classes*

|                              |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionPromiseToPayAdapter                                                                  |
| Method Name                  | createPtpBatchPromise(ptpWrapperDTO)                                                           |
| OBP Application Service Name | PromiseToPayCreateApplicationService                                                           |
| Method name                  | createPtpBatch(SessionContext sessionContext, PromiseToPayWrapperDTO p_PromiseToPayWrapperDTO) |

### 3.37 generateCheckListID

#### Description:

This method is used to generate checklist ID to render inbound documents screen.

#### Syntax:

```
public DocumentChecklistResponse generateCheckListID(DocumentChecklistRecordInputDTO
documentChecklistRecordInputDTO) throws Exception
```

#### Input:

**Table 3–109 generateCheckListID Input Parameter**

| Parameter                       | Type                            | Description                          | Mandatory |
|---------------------------------|---------------------------------|--------------------------------------|-----------|
| documentChecklistRecordInputDTO | DocumentChecklistRecordInputDTO | Document Checklist Records Input DTO | Y         |

**Output:****Table 3–110 generateCheckListID Output Type**

| Type                      | Description                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| DocumentChecklistResponse | CollDocumentGenerationResponse is response to document generation process, which contains generated document id |

**OBP Service Name:****Table 3–111 generateCheckListID OBP Service Classes**

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDMSAdapter                                              |
| Method Name                  | fetchDocumentChecklistID(documentChecklistRecordInputDTO)         |
| OBP Application Service Name | DocumentChecklistApplicationService                               |
| Method name                  | fetchDocumentChecklist(sessionContext, documentChecklistInputDTO) |

## 3.38 acceptPayment

**Description:**

This method is used to accept Payment.

**Syntax:**

```
public String acceptPayment(String transactionCategoryId, ElectronicTransferCaptureDTO
electronicTransferCaptureDTO)
```

**Input:****Table 3–112 acceptPayment Input Parameter**

| Parameter                    | Type                         | Description             | Mandatory |
|------------------------------|------------------------------|-------------------------|-----------|
| transactionCategoryId        | String                       | Transaction Category ID | Y         |
| electronicTransferCaptureDTO | ElectronicTransferCaptureDTO | Electronic Capture DTO  | Y         |

**Output:**

**Table 3–113 acceptPayment Output Type**

| Type   | Description                                                        |
|--------|--------------------------------------------------------------------|
| String | Method returns transactionRefNumber (Transaction Reference Number) |

**OBP Service Name:****Table 3–114 acceptPayment OBP Service Classes**

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| NGP Adapter Class Name       | AcceptPaymentAdapter                                                      |
| Method Name                  | acceptPayment(transactionCategoryId, electronicTransferCaptureDTO)        |
| OBP Application Service Name | OutgoingPaymentService                                                    |
| Method name                  | save(sessionContext, transactionCategoryId, electronicTransferCaptureDTO) |

## 3.39 customeraddressupdate

**Description:**

This method is used to update Customer Address.

**Syntax:**

```
public String customeraddressupdate(PartyAddressDTO[] partyAddressDTOArray)
```

**Input:****Table 3–115 customeraddressupdate Input Parameter**

| Parameter            | Type              | Description             | Mandatory |
|----------------------|-------------------|-------------------------|-----------|
| partyAddressDTOArray | PartyAddressDTO[] | Party Address DTO Array | Y         |

**Output:****Table 3–116 customeraddressupdate Output Type**

| Type   | Description                                                        |
|--------|--------------------------------------------------------------------|
| String | Method returns transactionRefNumber (Transaction Reference Number) |

**OBP Service Name:****Table 3–117 customeraddressupdate OBP Service Classes**

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| NGP Adapter Class Name       | CustomerAddressUpdateAdapter                             |
| Method Name                  | customeraddressupdate(partyAddressDTOArray)              |
| OBP Application Service Name | PartyAddressApplicationService                           |
| Method name                  | updatePartyAddress(sessionContext, partyAddressDTOArray) |

## 3.40 customerContactUpdate

### Description:

This method is used to update Customer Contact.

### Syntax:

```
public String customerContactUpdate(ContactPointDTO[] dto)
```

### Input:

*Table 3–118 customerContactUpdate Input Parameter*

| Parameter | Type              | Description             | Mandatory |
|-----------|-------------------|-------------------------|-----------|
| dto       | ContactPointDTO[] | Contact point DTO Array | Y         |

### Output:

*Table 3–119 customerContactUpdate Output Type*

| Type   | Description                                                        |
|--------|--------------------------------------------------------------------|
| String | Method returns transactionRefNumber (Transaction Reference Number) |

### OBP Service Name:

*Table 3–120 customerContactUpdate OBP Service Classes*

|                              |                                         |
|------------------------------|-----------------------------------------|
| NGP Adapter Class Name       | CustomerContactUpdateAdapter            |
| Method Name                  | customerContactUpdate(dto)              |
| OBP Application Service Name | ContactPointApplicationService          |
| Method name                  | updateContactPoint(sessionContext, dto) |

## 3.41 fetchPartyDetails

### Description:

This method is used to fetch party details.

### Syntax:

```
public PartyInformationBean fetchPartyDetails(String partyId)
```

### Input:

*Table 3–121 fetchPartyDetails Input Parameter*

| Parameter | Type   | Description | Mandatory |
|-----------|--------|-------------|-----------|
| partyId   | String | Party ID    | Y         |

### Output:



**Table 3–122 fetchPartyDetails Output Type**

| Type                 | Description                           |
|----------------------|---------------------------------------|
| PartyInformationBean | Method returns Party Information Bean |

**OBP Service Name:****Table 3–123 customerContactUpdate OBP Service Classes**

|                              |                                                 |
|------------------------------|-------------------------------------------------|
| NGP Adapter Class Name       | PartyDetailsAdapter                             |
| Method Name                  | fetchPartyDetails(partyId)                      |
| OBP Application Service Name | PartyApplicationService                         |
| Method name                  | fetchPartyBasicDetails(sessionContext, partyId) |

## 3.42 acceptPaymentforCasa

**Description:**

This method is used to accept Payment for CASA from Oracle Banking Enterprise Collections.

**Syntax:**

```
public String acceptPaymentforCasa(String initiatorAccountId, String[] beneficiaryAccountId, String description, MoneyDTO[] transactionAmount)
```

**Input:****Table 3–124 acceptPaymentforCasa Input Parameter**

| Parameter            | Type       | Description                  | Mandatory |
|----------------------|------------|------------------------------|-----------|
| initiatorAccountId   | String     | Payment initiator account ID | Y         |
| beneficiaryAccountId | String[]   | Beneficiary Account ID       | Y         |
| Description          | String     | Description                  | Y         |
| transactionAmount    | MoneyDTO[] | Transaction Amount           | Y         |

**Output:****Table 3–125 acceptPaymentforCasa Output Type**

| Type   | Description                                                        |
|--------|--------------------------------------------------------------------|
| String | Method returns transactionRefNumber (Transaction Reference Number) |

**OBP Service Name:****Table 3–126 acceptPaymentforCasa OBP Service Classes**

|             |                      |
|-------------|----------------------|
| NGP Adapter | AcceptPaymentAdapter |
|-------------|----------------------|

|                              |                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Class Name                   |                                                                                                                     |
| Method Name                  | acceptPaymentforCasa(initiatorAccountId, beneficiaryAccountId, description, transactionAmount)                      |
| OBP Application Service Name | DemandDepositTransactionService                                                                                     |
| Method name                  | transferFundsToBeneficiaries (sessionContext,initiatorAccountId,beneficiaryAccountId,description,transactionAmount) |

## 3.43 validateMandatoryDocuments

### Description:

This method is used to validate if mandatory documents are uploaded for a document policy configured.

### Syntax:

```
public TransactionStatus validateMandatoryDocuments(DocumentChecklistRecordInputDTO
documentChecklistRecordInputDTO)
```

### Input:

*Table 3–127 validateMandatoryDocuments Input Parameter*

| Parameter                       | Type                            | Description                         | Mandatory |
|---------------------------------|---------------------------------|-------------------------------------|-----------|
| documentChecklistRecordInputDTO | DocumentChecklistRecordInputDTO | Document Checklist Record Input DTO | Y         |

### Output:

*Table 3–128 validateMandatoryDocuments Output Type*

| Type              | Description                              |
|-------------------|------------------------------------------|
| TransactionStatus | Method returns transaction status object |

### OBP Service Name:

*Table 3–129 validateMandatoryDocuments OBP Service Classes*

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDMSAdapter                                                       |
| Method Name                  | validateMandatoryDocuments(documentChecklistRecordInputDTO)                |
| OBP Application Service Name | DocumentChecklistApplicationService                                        |
| Method name                  | validateMandatoryDocuments(sessionContext, documentChecklistInputDTO,null) |

## 3.44 acceptPayment

### Description:

This method is used to accept Payment for Loan from Oracle Banking Enterprise Collections.

**Syntax:**

```
public String acceptPayment (String transactionCategoryId, String accountNo, Money amount, String
counterpartyAccountNo,String institutionIdType, String institutionIdValue, String routingNumber)
```

**Input:****Table 3–130 accessPayment Input Parameter**

| Parameter             | Type   | Description                            | Mandatory |
|-----------------------|--------|----------------------------------------|-----------|
| transactionCategoryId | String | Indicates Transaction Category ID      | Y         |
| accountNo             | String | Indicates Account Number               | Y         |
| Amount                | String | Indicates amount                       | Y         |
| counterpartyAccountNo | String | Indicates Counter party Account Number | Y         |
| institutionIdType     | String | Indicates Institution ID Type          | Y         |
| institutionIdValue    | String | Indicates Institution ID Value         | Y         |
| routingNumber         | String | Indicates Routing Number               | Y         |

**Output:****Table 3–131 acceptPayment Output Type**

| Type   | Description                                                        |
|--------|--------------------------------------------------------------------|
| String | Method returns transactionRefNumber (Transaction Reference Number) |

**OBP Service Name:****Table 3–132 acceptPayment OBP Service Classes**

|                              |                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | AcceptPaymentAdapter                                                                                                                 |
| Method Name                  | acceptPayment(transactionCategoryId, accountNo, amount, counterpartyAccountNo, institutionIdType, institutionIdValue, routingNumber) |
| OBP Application Service Name | OutgoingElectronicCollectionService.java                                                                                             |
| Method name                  | save(sessionContext, transactionCategoryId, electronicTransferCaptureDTO)                                                            |

## 3.45 installmentLoanPayment

**Description:**

This method is used to accept Payment for Loan from Oracle Banking Enterprise Collections.

**Syntax:**

public String installmentLoanPayment (String loanAccountId, Money transactionAmount, String arrangementId, String settlementType)

**Input:****Table 3–133 installmentLoanPayment Input Parameter**

| Parameter         | Type   | Description                  | Mandatory |
|-------------------|--------|------------------------------|-----------|
| loanAccountId     | String | Indicates Loan Account ID    | Y         |
| transactionAmount | Money  | Indicates transaction amount | Y         |
| arrangementId     | String | Indicates arrangement ID     | Y         |
| settlementType    | String | Indicates settlement type    | Y         |

**Output:****Table 3–134 installmentLoanPayment Output Type**

| Type   | Description                                                        |
|--------|--------------------------------------------------------------------|
| String | Method returns transactionRefNumber (Transaction Reference Number) |

**OBP Service Name:****Table 3–135 installmentLoanPayment OBP Service Classes**

|                              |                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | AcceptPaymentAdapter                                                                   |
| Method Name                  | acceptPaymentforLoan(loanAccountId, transactionAmount, arrangementId, settlementType)  |
| OBP Application Service Name | LoanInstallmentPaymentApplicationService.java                                          |
| Method name                  | doInstallmentPayment(sessionContext, transactionDetailsDTO, 0, componentPreferenceDTO) |

## 3.46 getDocumentHistory

**Description:**

This method is used to find document in OBP.

**Syntax:**

public DocumentSearchResponse getDocumentHistory(DocumentSearchDTO documentSearchDTO)

**Input:****Table 3–136 getDocumentHistory Input Parameter**

| Parameter         | Type              | Description         | Mandatory |
|-------------------|-------------------|---------------------|-----------|
| documentSearchDTO | DocumentSearchDTO | Document Search DTO | Y         |

**Output:****Table 3–137** *getDocumentHistory Output Type*

| Type                   | Description                             |
|------------------------|-----------------------------------------|
| DocumentSearchResponse | Method returns document Search Response |

**OBP Service Name:****Table 3–138** *getDocumentHistoryOBP Service Classes*

|                              |                                                             |
|------------------------------|-------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDMSAdapter                                        |
| Method Name                  | searchDocumentsOnIndex(DocumentSearchDTO documentSearchDTO) |
| OBP Application Service Name | DocumentApplicationService                                  |
| Method name                  | search(sessionContext, documentSearchDTO)                   |

## 3.47 intimateHostforStopPeriodicStatement

**Description:**

This method is used to update stop periodic flag to host.

**Syntax:**

```
public void intimateHostforStopPeriodicStatement(String hostAcctNbr, String hostProdClassCd)
```

**Input:****Table 3–139** *intimateHostforStopPeriodicStatement Input Parameter*

| Parameter       | Type   | Description                  | Mandatory |
|-----------------|--------|------------------------------|-----------|
| hostAcctNbr     | String | Indicates Account ID         | Y         |
| hostProdClassCd | String | Indicates Product Class Code | Y         |

**Output:****Table 3–140** *intimateHostforStopPeriodicStatement Output Type*

| Type | Description |
|------|-------------|
| NA   |             |

**OBP Service Name:****Table 3–141** *intimateHostforStopPeriodicStatement OBP Service Classes*

|                        |    |
|------------------------|----|
| NGP Adapter Class Name | NA |
| Method Name            | NA |

|                              |    |
|------------------------------|----|
| OBP Application Service Name | NA |
| Method name                  | NA |

## 3.48 intimateHostforChangeRateOfInterest

### Description:

This method is used to update host to change rate of interest of accounts.

### Syntax:

```
public void intimateHostforChangeRateOfInterest(String hostAcctNbr, String hostProdClassCd)
```

### Input:

*Table 3–142 intimateHostforChangeRateOfInterest Input Parameter*

| Parameter       | Type   | Description                  | Mandatory |
|-----------------|--------|------------------------------|-----------|
| hostAcctNbr     | String | Indicates Account ID         | Y         |
| hostProdClassCd | String | Indicates Product Class Code | Y         |

### Output:

*Table 3–143 intimateHostforChangeRateOfInterest Output Type*

| Type | Description |
|------|-------------|
| NA   |             |

### OBP Service Name:

*Table 3–144 intimateHostforChangeRateOfInterest OBP Service Classes*

|                              |    |
|------------------------------|----|
| NGP Adapter Class Name       | NA |
| Method Name                  | NA |
| OBP Application Service Name | NA |
| Method name                  | NA |

## 3.49 validateDtIsByDmdc

### Description:

This method is used to validate DMDC details.

### Syntax:

```
public ScraDtIsBean validateDtIsByDmdc(Date notDt, Date svcActDt, Date svcEndDt, String svcOrdNum, String svcUnitNm, String svcOrdSt, String vSw, String srcHostStr)
```

### Input:

**Table 3–145 validateDtlsByDmdc Input Parameter**

| Parameter  | Type   | Description                        | Mandatory |
|------------|--------|------------------------------------|-----------|
| notDt      | Date   | Indicates notice Date              | Y         |
| svcActDt   | Date   | Indicates Service Active Date      | Y         |
| svcEndDt   | Date   | Indicates Service End Date         | Y         |
| svcOrdNum  | String | Indicates Service Order Number     | Y         |
| svcUnitNm  | String | Indicates Service Unit Name        | Y         |
| svcOrdSt   | Date   | Indicates Service Order Start Date | Y         |
| vSw        | String | Indicate service switch            | Y         |
| srcHostStr | String | Source host string                 | Y         |

**Output:****Table 3–146 validateDtlsByDmdc Output Type**

| Type         | Description                 |
|--------------|-----------------------------|
| ScraDtlsBean | Method returns ScraDtlsBean |

**OBP Service Name:****Table 3–147 validateDtlsByDmdcOBP Service Classes**

|                              |                                                                    |
|------------------------------|--------------------------------------------------------------------|
| NGP Adapter Class Name       |                                                                    |
| Method Name                  | verifyDMDCDetails (DmdcVerificationWrapperDTO dmdcVerificationDTO) |
| OBP Application Service Name | NA                                                                 |
| Method name                  | NA                                                                 |

## 3.50 fetchPartySearchListDetails

**Description:**

This method is used to fetch Party details from OBP.

**Syntax:**

```
public PartySearchResponseDTO fetchPartySearchListDetails(PartySearchRequest partySearchRequest)
```

**Input:****Table 3–148 fetchPartySearchListDetails Input Parameter**

| Parameter          | Type               | Description          | Mandatory |
|--------------------|--------------------|----------------------|-----------|
| partySearchRequest | PartySearchRequest | Party Search Request | Y         |

**Table 3–149 fetchPartySearchListDetails Output Type**

| Type                   | Description                           |
|------------------------|---------------------------------------|
| PartySearchResponseDTO | Method returns PartySearchResponseDTO |

**OBP Service Name:**

**Table 3–150 fetchPartySearchList Details OBP Service Classes**

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| NGP Adapter Class Name       | PartyDetailsAdapter                                                 |
| Method Name                  | fetchPartySearchListDetails (PartySearchRequest partySearchRequest) |
| OBP Application Service Name | MDMPartySearchApplicationServiceProxy                               |
| Method Name                  | searchParty(sessionContext, partySearchRequest)                     |

## 3.51 invokeAcctWarningIndicatorApplicationService

### Description:

This method is used to fetch Party details from OBP.

### Syntax:

```
public String invokeAcctWarningIndicatorApplicationService(String hostAccNo, String warningIndId, String productCd, boolean b)
```

### Input:

**Table 3–151 InvokeAcctWarningIndicatorApplicationService Input Parameter**

| Parameter           | Type   | Description                    | Mandatory |
|---------------------|--------|--------------------------------|-----------|
| hostAccNo           | String | Account Number                 | Y         |
| warningIndId        | String | Warning Indicator Id           | Y         |
| productCd           | String | Product Code                   | Y         |
| isPrimaryCustUpdate | String | Primary Customer Update Switch | Y         |

### Output

**Table 3–152 InvokeAcctWarningIndicatorApplicationService Output Type**

| Type   | Description |
|--------|-------------|
| String | Error Code  |

**OBP Service Name:**



**Table 3–153 InvokeAcctWarningIndicatorApplicationService OBP Service Classes**

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | AccountWarningIndicatorAdapter                                                                  |
| Method Name                  | maintainWarningIndicatorsFromAccount<br>(WarningIndicatorDetailsDTO warningIndicatorDetailsDTO) |
| OBP Application Service Name | DDAWarningIndicatorApplicationService                                                           |
| Method Name                  | modifyRiskIndicatorOnAccount (sessionContext,<br>warningIndicatorDetailsDTOArray)               |

## 3.52 perFormAccountChargeOff

### Description:

This method is used to Performs Full Account WriteOff

### Syntax:

```
public String perFormAccountChargeOff(String accountId, String accountType, String primaryReason, String bankCode, String branchCode, String currencyCd)
```

### Input:

**Table 3–154 perFormAccountChargeOff Input Parameter**

| Parameter     | Type   | Description                    | Mandatory |
|---------------|--------|--------------------------------|-----------|
| accountId     | String | Account Number                 | Y         |
| accountType   | String | Warning Indicator Id           | Y         |
| primaryReason | String | Product Code                   | Y         |
| bankCode      | String |                                |           |
| branchCode    | String |                                |           |
| currencyCd    | String | Primary Customer Update Switch | Y         |

### Output

**Table 3–155 perFormAccountChargeOff Output Type**

| Type   | Description |
|--------|-------------|
| String | Error Code  |

### OBP Service Name:

**Table 3–156 perFormAccountChargeOff OBP Service Classes**

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| NGP Adapter Class Name | CollectionAcctChargeOffAdapter                                |
| Method Name            | perFormAccountChargeOff(String accountId, AccountType accoun- |

|                              |                                                            |
|------------------------------|------------------------------------------------------------|
|                              | tType, String currencyCd, String primaryReasonCd)          |
| OBP Application Service Name | ChargeOffApplicationService                                |
| Method Name                  | performFullChargeOff(sessionContext, accountchargeOffDTO); |

## 3.53 advanceLoanPayment

### Description:

This method is used to Performs Full Account WriteOff

### Syntax:

```
public String advanceLoanPayment (String loanAccountId, Money transactionAmount, String arrangementId, String settlementType)
```

### Input:

*Table 3–157 advanceLoanPayment Input Parameter*

| Parameter         | Type   | Description         | Mandatory |
|-------------------|--------|---------------------|-----------|
| loanAccountId     | String | Loan Account Number | Y         |
| transactionAmount | String | Transaction Amount  | Y         |
| arrangementId     | String | Arrangement Id      | Y         |
| settlementType    | String | Settlement Type     | Y         |

### Output:

*Table 3–158 advanceLoanPayment Output Type*

| Type   | Description          |
|--------|----------------------|
| String | transactionRefNumber |

### OBP Service Name:

*Table 3–159 advanceLoanPayment OBP Service Classes*

|                              |                                                                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | AcceptPaymentAdapter                                                                                                                         |
| Method Name                  | acceptAdvanceLoanPayment(loanAccountId, transactionAmount, arrangementId, settlementType)                                                    |
| OBP Application Service Name | loanInstallmentPaymentApplicationService                                                                                                     |
| Method Name                  | makePayment(sessionContext,loanAccountId,new Date (),LoanEventCodes.LN_ADVANCE_PAYMENT, transactionDetailsDTO,null, componentPreferenceDTO); |

## 3.54 partialPayoffLoanPayment

### Description:

This method is used to Performs Full Account WriteOff

### Syntax:

```
public String partialPayoffLoanPayment(String loanAccountId, Money transactionAmount, String arrangementId, String settlementType)
```

### Input:

**Table 3–160 partialPayoffLoanPayment Input Parameter**

| Parameter         | Type   | Description         | Mandatory |
|-------------------|--------|---------------------|-----------|
| loanAccountId     | String | Loan Account Number | Y         |
| transactionAmount | String | Transaction Amount  | Y         |
| arrangementId     | String | Arrangement Id      | Y         |
| settlementType    | String | Settlement Type     | Y         |

### Output:

**Table 3–161 partialPayoffLoanPayment Output Type**

| Type   | Description          |
|--------|----------------------|
| String | transactionRefNumber |

### OBP Service Name:

**Table 3–162 partialPayoffLoanPayment OBP Service Classes**

|                              |                                                                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | AcceptPaymentAdapter                                                                                                                             |
| Method Name                  | acceptAdvanceLoanPayment(loanAccountId, transactionAmount, arrangementId, settlementType)                                                        |
| OBP Application Service Name | loanInstallmentPaymentApplicationService                                                                                                         |
| Method Name                  | makePayment(sessionContext, loanAccountId, new Date (), LoanEventCodes.LN_ADVANCE_PAYMENT, transactionDetailsDTO, null, componentPreferenceDTO); |

## 3.55 fetchPartyBankPolicy

### Description:

This method is used to fetch Bank Policy

### Syntax:

---

```
public PartyBankPolicyInquiryResponse fetchPartyBankPolicy(PartyBankPolicyDTO partyBankPolicyDTO)
```

**Input:****Table 3–163 fetchPartyBankPolicy Input Parameter**

| Parameter          | Type               | Description     | Mandatory |
|--------------------|--------------------|-----------------|-----------|
| partyBankPolicyDTO | PartyBankPolicyDTO | Bank Policy DTO | Y         |

**Output:****Table 3–164 fetchPartyBankPolicy Output Type**

| Type                           | Description                    |
|--------------------------------|--------------------------------|
| PartyBankPolicyInquiryResponse | partyBankPolicyInquiryResponse |

**OBP Service Name:****Table 3–165 fetchPartyBankPolicy OBP Service Classes**

|                              |                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | PartyDetailsAdapter                                                                                                     |
| Method Name                  | public PartyBankPolicyInquiryResponse fetchPartyBankPolicy (PartyBankPolicyDTO partyBankPolicyDTO)throws FatalException |
| OBP Application Service Name | PartyBankPolicyApplicationService                                                                                       |
| Method Name                  | fetchPartyBankPolicy(sessionContext, partyBankPolicyDTO);                                                               |

## 3.56 fetchSsnNumber

**Description:**

This method is used to fetch SSN number.

**Syntax:**

```
public IdentificationResponse fetchSsnNumber(IdentificationDTO identificationDTO)
```

**Input:****Table 3–166 fetchSsnNumber Input Parameter**

| Parameter         | Type              | Description        | Mandatory |
|-------------------|-------------------|--------------------|-----------|
| identificationDTO | IdentificationDTO | Identification DTO | Y         |

**Output:**

**Table 3–167 fetchSsnNumber Output Type**

| Type                   | Description            |
|------------------------|------------------------|
| IdentificationResponse | identificationResponse |

**OBP Service Name:****Table 3–168 fetchSsnNumber OBP Service Classes**

|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | PartyDetailsAdapter                                                                                     |
| Method Name                  | public IdentificationResponse fetchSsnNumber(IdentificationDTO identificationDTO) throws FatalException |
| OBP Application Service Name | PartyBankPolicyApplicationService                                                                       |
| Method Name                  | fetchSsnNumber(sessionContext, identificationDTO);                                                      |

## 3.57 executeRuleFacts

**Description:**

This method is used to get the list of facts used in a rule.

**Syntax:**

```
public FactDetailsDTO[] executeRuleFacts(String ruleId, boolean isRuleSet)
```

**Input:****Table 3–169 executeRuleFacts Input Parameter**

| Parameter | Type    | Description      | Mandatory |
|-----------|---------|------------------|-----------|
| ruleId    | String  | Rule ID          | Y         |
| isRuleSet | Boolean | Rule set Present | Y         |

**Output:****Table 3–170 executeRuleFacts Output Type**

| Type             | Description      |
|------------------|------------------|
| FactDetailsDTO[] | Fact Details DTO |

**OBP Service Name:****Table 3–171 executeRuleFacts OBP Service Classes**

|                        |                        |
|------------------------|------------------------|
| NGP Adapter Class Name | CollectionRulesAdapter |
|------------------------|------------------------|

|                              |                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Method Name                  | public FactDetailsInquiryResponse getRuleFacts(RuleFactDetailsInquiryRequestDTO ruleFactDetailsInquiryRequestDTO) throws Exception |
| OBP Application Service Name | RuleMaintenanceApplicationService                                                                                                  |
| Method Name                  | getFactsUsedInRule(sessionContext, ruleFactDetailsInquiryRequestDTO);                                                              |

## 3.58 validateHardshipReliefRequest

### Description:

This method is used to validate Hardship Relief Request

### Syntax:

```
public String validateHardshipReliefRequest(List acctId, String partyId, String applicationId, String initiatedBy, String reliefEffectiveDt, String reliefExpiryDt,
```

```
String applicationDt, String startDt, String endDt, String expiryDt, String approvedDate, String approvedBy)
```

### Input:

**Table 3–172 validateHardshipReliefRequest Input Parameter**

| Parameter         | Type   | Description           | Mandatory |
|-------------------|--------|-----------------------|-----------|
| acctId            | List   | Account Id            | Y         |
| partyId           | String | Party Id              | Y         |
| applicationId     | String | Application Id        | Y         |
| initiatedBy       | String | Request Initiated By  | Y         |
| reliefEffectiveDt | String | Relief Effective Date | Y         |
| reliefExpiryDt    | String | Relief Expiry Date    | Y         |
| applicationDt     | String | Application Date      | Y         |
| startDt           | String | Start date            | Y         |
| endDt             | String | End Date              | Y         |
| expiryDt          | String | Expiry Date           | Y         |
| approvedDate      | String | Approved date         | Y         |
| approvedBy        | String | Approve By            | Y         |

### Output:

**Table 3–173 validateHardshipReliefRequest Output Type**

| Type   | Description |
|--------|-------------|
| String | errorCode   |

**OBP Service Name:****Table 3–174 validateHardshipReliefRequest OBP Service Classes**

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | HardshipReliefRequestAdapter                                                                    |
| Method Name                  | Public hardshipReliefRequestAdapter<br>validateHardshipReliefRequest(hardshipReliefRequestDTO); |
| OBP Application Service Name | HardshipReliefRequestApplicationService                                                         |
| Method Name                  | validateHardshipReliefRequest(fetchSessionContext(), hardshipReliefRequestDTO, null);           |

## 3.59 executeRuleForAllRuleType

**Description:****Syntax:**

```
public Map<String, RuleFactInfoDto> executeRuleForAllRuleType(String ruleId, String ruleEffectiveDate,
List<RuleFactInfoDto> ruleFactInfoList, boolean isRuleSet)
```

**Input:****Table 3–175 executeRuleForAllRuleType Input Parameter**

| Parameter         | Type                  | Description                                                                               | Mandatory |
|-------------------|-----------------------|-------------------------------------------------------------------------------------------|-----------|
| ruleId            | String                | This is the name of the filter configured in OBP screen, Back Office->Rules->Rule Author. | Y         |
| ruleEffectiveDate | String                | Rule effective date.                                                                      | N         |
| ruleFactInfoList  | List<RuleFactInfoDto> | List of facts to be used in rule                                                          | N         |
| isRuleSet         | boolean               | Identifier for rule / rule set                                                            | Y         |

**Output:****Table 3–176 executeRuleForAllRuleType Output Type**

| Type               | Description               |
|--------------------|---------------------------|
| RuleFactInfoDto [] | Rule Fact Information DTO |

**OBP Service Name:**

**Table 3–177 executeRuleForAllRuleType OBP Service Classes**

|                              |                                                                                                                                                                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionRulesAdapter                                                                                                                                                                                                                                                                                      |
| Method Name                  | public StatementOutcomeInformationDTO[] executeRuleSet(String ruleSetId, String ruleEffectiveDate, FactInformationDTO[] factInformationDTOs)<br><br>public StatementOutcomeInformationDTO[] executeRule(String ruleId, String ruleEffectiveDate, FactInformationDTO[] factInformationDTOs) throws Exception |
| OBP Application Service Name | RuleExecutionApplicationService                                                                                                                                                                                                                                                                             |
| Method Name                  | public RuleSetExecutionResponse executeRuleSet(SessionContext sessionContext, RuleContext ruleContext) throws FatalException                                                                                                                                                                                |

## 3.60 updateInCollIndicatorForParty

### Description:

### Syntax:

```
public boolean updateInCollIndicatorForParty(RecoveryAcctDetailsCollectionDTO recoveryAcctDetailsCollectionDTO)
```

### Input:

**Table 3–178 updateInCollIndicatorForParty Input Parameter**

| Parameter                        | Type                             | Description                      | Mandatory |
|----------------------------------|----------------------------------|----------------------------------|-----------|
| recoveryAcctDetailsCollectionDTO | RecoveryAcctDetailsCollectionDTO | RecoveryAcctDetailsCollectionDTO | Y         |

### Output:

**Table 3–179 executeRuleForAllRuleType Output Type**

| Type    | Description                       |
|---------|-----------------------------------|
| boolean | In Collection Indicator for Party |

### OBP Service Name:

**Table 3–180 updateInCollIndicatorForParty OBP Service Classes**

|                        |                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name | CollectionAcctInCollectionAdapter                                                                             |
| Method Name            | public boolean updateInCollectionIndicator(RecoveryAcctDetailsCollectionDTO recoveryAcctDetailsCollectionDTO) |



|                              |                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | eryAccountDetailsDTO recoveryAccountDetailsDTO) throws Exception                                                                                                   |
| OBP Application Service Name | DDAWarningIndicatorApplicationService                                                                                                                              |
| Method Name                  | public TransactionStatus setRecoveryFlagWarningIndicator(SessionContext sessionContext, RecoveryAccountDetailsDTO recoveryAccountDetailsDTO) throws FatalException |

## 3.61 populateGrantValues

### Description:

### Syntax:

```
public String populateGrantValues(String type, String checkValue)
```

### Input:

**Table 3–181 populateGrantValues Input Parameter**

| Parameter  | Type    | Description | Mandatory |
|------------|---------|-------------|-----------|
| type       | String  | Type        | Y         |
| checkValue | Boolean | Check Value | Y         |

### Output:

**Table 3–182 populateGrantValues Output Type**

| Type   | Description |
|--------|-------------|
| String | Grant Value |

### OBP Service Name:

**Table 3–183 populateGrantValues OBP Service Classes**

|                              |                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | PopulateGrantedValuesAdapter                                                                                                                                        |
| Method Name                  | public PopulateGrantedValuesResponse checkGrantedValues(PopulateGrantedValuesDTO populateGrantedValuesDTO) throws FatalException                                    |
| OBP Application Service Name | PopulateGrantedValuesApplicationService                                                                                                                             |
| Method Name                  | public PopulateGrantedValuesResponse checkGrantedValues(SessionContext p_SessionContext, PopulateGrantedValuesDTO p_PopulateGrantedValuesDTO) throws FatalException |

## 3.62 initiateLegalProcessForApprovalProcess

### Description:

### Syntax:

```
public boolean initiateLegalProcessForApprovalProcess(ProcessForApprovalRequestDTO legalProcessForApprovalRequestDTO) throws Exception
```

### Input:

**Table 3–184 initiateLegalProcessForApprovalProcess Input Parameter**

| Parameter                         | Type                         | Description                            | Mandatory |
|-----------------------------------|------------------------------|----------------------------------------|-----------|
| legalProcessForApprovalRequestDTO | ProcessForApprovalRequestDTO | Legal Process For Approval Request DTO | Y         |

### Output:

**Table 3–185 initiateLegalProcessForApprovalProcess Output Type**

| Type    | Description                                |
|---------|--------------------------------------------|
| boolean | Legal Process For Approval Process Present |

### OBP Service Name:

**Table 3–186 initiateLegalProcessForApprovalProcess OBP Service Classes**

|                              |                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | LegalProcessForApprovalCallingAdapter                                                                                                                               |
| Method Name                  | public TransactionStatus callApproval(LegalProcessForApprovalRequestDTO legalProcessForApprovalRequestDTO) throws FatalException                                    |
| OBP Application Service Name | LegalProcessForApprovalApplicationService                                                                                                                           |
| Method Name                  | public TransactionStatus callApproval(SessionContext p_SessionContext, LegalProcessForApprovalRequestDTO p_LegalProcessForApprovalRequestDTO) throws FatalException |

## 3.63 updateDisputeFlagInHost

### Description:

This method is used to update host to change dispute flag.

### Syntax:

```
public void updateDisputeFlagHost(String hostAccountNbr, String productClasscd, String disputeFlag)
```

### Input:

**Table 3–187 intimateHostforChangeRateOfInterest Input Parameter**

| Parameter      | Type   | Description                  | Mandatory |
|----------------|--------|------------------------------|-----------|
| hostAccountNbr | String | Indicates Account ID         | Y         |
| productClasscd | String | Indicates Product Class Code | Y         |
| disputeFlag    | String | Indicates Dispute Flag       | Y         |

**Output:****Table 3–188 intimateHostforChangeRateOfInterest Output Type**

| Type | Description |
|------|-------------|
| NA   | -           |

**OBP Service Name:****Table 3–189 intimateHostforChangeRateOfInterest OBP Service Classes**

|                              |    |
|------------------------------|----|
| NGP Adapter Class Name       | NA |
| Method Name                  | NA |
| OBP Application Service Name | NA |
| Method Name                  | NA |

## 3.64 invokeAcctWarningIndicatorApplicationService

**Description:**

This class is used to maintain the LoanRiskIndicator domain object.

**Syntax:**

```
public String invokeAcctWarningIndicatorApplicationService(String hostAccNo, String warningIndId, String productCd, boolean b)
```

**Input:****Table 3–190 invokeAcctWarningIndicatorApplicationService Input Parameter**

| Parameter    | Type    | Description        | Mandatory |
|--------------|---------|--------------------|-----------|
| hostAccNo    |         |                    |           |
| warningIndId | String  | WarningIndicatorId | Y         |
| productCd    | String  | Product Code       | Y         |
| b            | boolean | Operation          | Y         |

**Output:****Table 3–191 invokeAcctWarningIndicatorApplicationService Output Type**

| Type | Description |
|------|-------------|
| NA   | -           |

**OBP Service Name:****Table 3–192 invokeAcctWarningIndicatorApplicationService OBP Service Classes**

|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | LinkedAccountInfoFromLoansAdapter                                                                                                                                       |
| Method Name                  | public TransactionStatus fetchAndUpdateLoanRiskIndicatorForLoan (String accountId, List<String> warningIndicators, WarningIndicatorOperation warningIndicatorOperation) |
| OBP Application Service Name | LoanRiskIndicatorApplicationService                                                                                                                                     |
| Method Name                  | public TransactionStatus updateLoanRiskIndicator(com.ofss.fc.app.context.SessionContext sessionContext,String accountId,LoanRiskIndicatorDTO[] loanRiskIndicatorDTO)    |

## 3.65 invokePartialChargeOffBatch

**Description:**

This method updates the accounts for partial ChargeOff.

**Syntax:**

```
public void invokePartialChargeOffBatch(PartialChargeOffWrapperDTO partialChargeOffWrapperDTO)
```

**Input:****Table 3–193 invoke Partial ChargeoffBatch Input Parameter**

| Parameter                  | Type                       | Description                    | Mandatory |
|----------------------------|----------------------------|--------------------------------|-----------|
| partialChargeOffWrapperDTO | PartialChargeOffWrapperDTO | Partial Charge Off Wrapper DTO | Y         |

**Output:****Table 3–194 invokePartialChargeOffBatch Output Type**

| Type | Description |
|------|-------------|
| NA   | -           |

**OBP Service Name:**

**Table 3–195 invokePartialChargeOffBatch OBP Service Classes**

|                              |                                                                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionBatchAdapter                                                                                                                                 |
| Method Name                  | public PartialChargeOffResponse processPartialChargeOffBatch(PartialChargeOffWrapperDTO partialChargeOffWrapperDTO) throws Exception                   |
| OBP Application Service Name | PartialChargeOffApplicationService                                                                                                                     |
| Method Name                  | public PartialChargeOffResponse update(SessionContext p_SessionContext, PartialChargeOffWrapperDTO p_PartialChargeOffWrapperDTO) throws FatalException |

## 3.66 fetchDataConfigurationForField

### Description:

To fetch the field configurations for field level masking.

### Syntax:

```
public DataPrivacyConfigResponse fetchDataConfigurationForField(String fieldId)
```

### Input:

**Table 3–196 fetchDataConfigurationForField Input Parameter**

| Parameter | Type   | Description                                             | Mandatory |
|-----------|--------|---------------------------------------------------------|-----------|
| fieldId   | String | The name of the field whose configuration to be checked | Y         |

### Output:

**Table 3–197 fetchDataConfigurationForField Output Type**

| Type                      | Description                                                 |
|---------------------------|-------------------------------------------------------------|
| DataPrivacyConfigResponse | Response gives the configuration information for that field |

### OBP Service Name:

**Table 3–198 fetchDataConfigurationForField OBP Service Classes**

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionCommonServiceAdapter                                                                   |
| Method Name                  | public DataPrivacyConfigResponse fetchDataConfigurationForField(String fieldId) throws Exception |
| OBP Application Service Name | DataPrivacyConfigurationApplicationService                                                       |
| Method Name                  | public DataPrivacyConfigResponse fetchAllField-                                                  |

|  |                                                                          |
|--|--------------------------------------------------------------------------|
|  | sMaskedInDataExport(SessionContext sessionContext) throws FatalException |
|--|--------------------------------------------------------------------------|

## 3.67 fetchDataConfigurationForFieldTokenization

### Description:

To fetch the field configurations for tokenization.

### Syntax:

```
public DataPrivacyConfigResponse fetchDataConfigurationForFieldTokenization(String fieldId)
```

### Input:

**Table 3–199 fetchDataConfigurationForFieldTokenization Input Parameter**

| Parameter | Type   | Description                                                              | Mandatory |
|-----------|--------|--------------------------------------------------------------------------|-----------|
| fieldId   | String | The name of the field whose configuration to be checked for tokenization | Y         |

### Output:

**Table 3–200 fetchDataConfigurationForFieldTokenization Output Type**

| Type                      | Description                                                    |
|---------------------------|----------------------------------------------------------------|
| DataPrivacyConfigResponse | Response gives the configuration information for tokenization. |

### OBP Service Name:

**Table 3–201 fetchDataConfigurationForFieldTokenization OBP Service Classes**

|                              |                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionCommonServiceAdapter                                                              |
| Method Name                  | public DataPrivacyConfigResponse fetchDataConfigurationForFieldTokenization(String fieldId) |
| OBP Application Service Name | DataPrivacyConfigurationApplicationService                                                  |
| Method Name                  | public DataPrivacyConfigResponse fetchAllFieldsToBeTokenized(SessionContext sessionContext) |

## 3.68 getDPDHolidayFactor

### Description:

This methods returns the branch specific DPD Holiday Factor for the respective bank.

### Syntax:

```
public int getDPDHolidayFactor(String bankCode, String branchCode)
```

**Input:****Table 3–202 getDPDHolidayFactor Input Parameter**

| Parameter  | Type   | Description                                                       | Mandatory |
|------------|--------|-------------------------------------------------------------------|-----------|
| bankCode   | String | Bank Code for which the branch dates have to be fetched from DB   | Y         |
| branchCode | String | Branch Code for which the branch dates have to be fetched from DB | Y         |

**Output:****Table 3–203 getDPDHolidayFactor Output Type**

| Type | Description                          |
|------|--------------------------------------|
| Int  | Returns Days Past Due Holiday factor |

**OBP Service Name:****Table 3–204 getDPDHolidayFactor OBP Service Classes**

|                              |                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDateManagerAdapter                                                                                                                          |
| Method Name                  | public BranchDatesDefinitionDTO fetchBranchDates(String bankCode, String branchCode) throws Exception                                                 |
| OBP Application Service Name | CoreApplicationService                                                                                                                                |
| Method Name                  | public BranchDatesDefinitionInquiryResponse fetchBranchDates(SessionContext sessionContext, String bankCode, String branchCode) throws FatalException |

## 3.69 getNextWorkingDate

**Description:**

This methods returns the branch specific next working date for the respective bank.

**Syntax:**

```
public Date getNextWorkingDate(Date inputDate, String accountId)
```

**Input:****Table 3–205 getNextWorkingDate Input Parameter**

| Parameter | Type | Description                                                                              | Mandatory |
|-----------|------|------------------------------------------------------------------------------------------|-----------|
| inputDate | Date | Date which needs to be checked if it is a Holiday. If it is a Holiday, next working date | Y         |

| Parameter | Type   | Description                                                    | Mandatory |
|-----------|--------|----------------------------------------------------------------|-----------|
|           |        | needs to get fetched.                                          |           |
| accountId | String | Branch Code of the accountId which have to be fetched from DB. | Y         |

**Output:****Table 3–206 getNextWorkingDate Output Type**

| Type | Description                |
|------|----------------------------|
| Date | Returns Next Working Date. |

**OBP Service Name:****Table 3–207 getNextWorkingDate OBP Service Classes**

|                              |                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDateManagerAdapter                                                                                                                                              |
| Method Name                  | public Date fetchNextWorkingDate(String bankCode, String branchCode, Date inputDate) throws Exception                                                                     |
| OBP Application Service Name | CalendarApplicationService                                                                                                                                                |
| Method Name                  | public CalendarDateInquiryResponse getNearestWorkingDate(SessionContext sessionContext, String branchCode, Date inputDate, boolean beforeInputDate) throws FatalException |

## 3.70 getPreviousWorkingDate

**Description:**

This methods returns the branch specific previous working date for the respective bank.

**Syntax:**

```
public Date getPreviousWorkingDate(Date inputDate, String accountId)
```

**Input:****Table 3–208 getPreviousWorkingDate Input Parameter**

| Parameter | Type   | Description                                                                                                        | Mandatory |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------|-----------|
| inputDate | Date   | Date which needs to be checked if it is a Holiday. If it is a Holiday, previous working date needs to get fetched. | Y         |
| accountId | String | Branch Code of the accountId which have to be fetched from DB.                                                     | Y         |



**Output:****Table 3–209 getPreviousWorkingDate Output Type**

| Type | Description                |
|------|----------------------------|
| Date | Returns Next Working Date. |

**OBP Service Name:****Table 3–210 getPreviousWorkingDate OBP Service Classes**

|                              |                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | CollectionDateManagerAdapter                                                                                                                                              |
| Method Name                  | public Date fetchPreviousWorkingDate(String bankCode, String branchCode, Date inputDate) throws Exception                                                                 |
| OBP Application Service Name | CalendarApplicationService                                                                                                                                                |
| Method Name                  | public CalendarDateInquiryResponse getNearestWorkingDate(SessionContext sessionContext, String branchCode, Date inputDate, boolean beforeInputDate) throws FatalException |

# 4 List of Recovery Adapter APIs

This chapter provides a list of Oracle Banking Enterprise Recovery Adapter APIs.

## 4.1 getExpenseList

### Description:

This Method is used to get list of expenses on account from Pricing module.

### Syntax:

```
public RecExpenseListDTO[] getExpenseList(String arrangementNumber)
```

### Input:

*Table 4–1 getExpenseList Input Parameter*

| Parameter         | Type   | Description        | Mandatory |
|-------------------|--------|--------------------|-----------|
| arrangementNumber | String | Arrangement Number | Y         |

### Output:

*Table 4–2 getExpenseList Output Type*

| Type                | Description                  |
|---------------------|------------------------------|
| RecExpenseListDTO[] | Method returns Expenses List |

### OBP Service Name:

*Table 4–3 getExpenseList Service Classes*

|                              |                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                              |
| Method name                  | public RecExpenseListDTO[] getExpenseList(String arrangementNumber)                                                            |
| OBP Application Service Name | EventPriceApplicationService                                                                                                   |
| Method name                  | public FeeInquiryForRefundResponse getFeeDetailsForRefund (SessionContext sessionContext, FeeRefundInputDTO feeRefundInputDTO) |

## 4.2 getPurposeList

### Description:

This Method is used to fetch list of expense purposes from pricing modules.

### Syntax:

```
public List<String> getPurposeList(String arrangementId, String[] eventCodes, Date asOnDate, String derivedFeeTypeFactId)
```

**Input:****Table 4–4** *getPurposeList Input Parameter*

| Parameter            | Type     | Description              | Mandatory |
|----------------------|----------|--------------------------|-----------|
| arrangementId        | String   | Arrangement ID           | Y         |
| eventCodes           | String[] | Event Codes              | Y         |
| asOnDate             | Date     | As On date               | Y         |
| derivedFeeTypeFactId | String   | Derived Fee Type Fact ID | Y         |

**Output:****Table 4–5** *getPurposeList Output Type*

| Type         | Description                    |
|--------------|--------------------------------|
| List<String> | Method returns List of Puposos |

**OBP Service Name:****Table 4–6** *getExpenseList Service Classes*

|                              |                                                                                                                                                                                                            |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                                                                          |
| Method name                  | public List<String> getPurposeList(String arrangementId, String[] eventCodes, Date asOnDate, String derivedFeeTypeFactId)                                                                                  |
| OBP Application Service Name | EventPriceApplicationService                                                                                                                                                                               |
| Method name                  | public DerivedFeeTypeValuesInquiryResponse inquireDerivedFeeTypeValuesForArrangement(SessionContext sessionContext, String arrangementId, String[] eventCodes, Date asOnDate, String derivedFeeTypeFactId) |

## 4.3 getComputePriceForPurpose

**Description:**

Get default amount for expense.

This method is used to get default amount of the expense or fees charged.

**Syntax:**

```
public WrappedPriceFeatureInquiryResponse getComputePriceForPurpose(PricingEventContextDTO
pricingContextDTO, String arrangementNumber, String eventCode, String currency)
```

**Input:****Table 4–7** *getComputePriceForPurpose Input Parameter*

| Parameter         | Type                   | Description               | Mandatory |
|-------------------|------------------------|---------------------------|-----------|
| pricingContextDTO | PricingEventContextDTO | Pricing Event Context DTO | Y         |

| Parameter         | Type   | Description        | Mandatory |
|-------------------|--------|--------------------|-----------|
| arrangementNumber | String | Arrangement Number | Y         |
| eventCode         | String | Event Code         | Y         |
| currency          | String | Currency           | Y         |

**Output:****Table 4–8** *getComputePriceForPurpose Output Type*

| Type                               | Description                     |
|------------------------------------|---------------------------------|
| WrappedPriceFeatureInquiryResponse | Method returns Inquiry Response |

**OBP Service Name:****Table 4–9** *getComputePriceForPurpose Service Classes*

|                              |                                                                                                                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                                                                                                                                       |
| Method name                  | public WrappedPriceFeatureInquiryResponse<br>getComputePriceForPurpose(PricingEventContextDTO<br>pricingEventContextDTO, String arrangementNumber, String<br>eventCode, String currency)                                                                                |
| OBP Application Service Name | EventPriceApplicationService                                                                                                                                                                                                                                            |
| Method name                  | public WrappedPriceFeatureInquiryResponse<br>getPriceOnEventSimulation(SessionContext sessionContext,<br>PricingEventContextDTO pricingContextDTO,<br>String arrangementNumber,<br>String evenCode,<br>Date asOnDate,<br>CurrencyInformationDTO currencyInformationDTO) |

## 4.4 recomputeTransactionPrice

**Description:**

Add new expense.

**Syntax:**

```
public ProcessedBasePriceInquiryResponse recomputeTransactionPrice(PricingEventContextDTO
pricingContextDTO, String feeChargeDetailId, String ticketNumber, MoneyDTO newBasePrice, Date
asOnDate, String currencyCode, String eventCode, String reasonCode, String remarks, boolean simulation,
String transactionReferenceNumber)
```

**Input:**

**Table 4–10** *recomputeTransactionPrice Input Parameter*

| Parameter                  | Type                   | Description                  | Mandatory |
|----------------------------|------------------------|------------------------------|-----------|
| pricingContextDTO          | PricingEventContextDTO | Pricing Context DTO          | Y         |
| feeChargeDetailId          | String                 | Fee Charge Detail ID         | Y         |
| ticketNumber               | String                 | Ticket Number                | Y         |
| newBasePrice               | MoneyDTO               | New Base Price               | Y         |
| asOnDate                   | Date                   | As On Date                   | Y         |
| currencyCode               | String                 | Currency code                | Y         |
| eventCode                  | String                 | Event Code                   | Y         |
| reasonCode                 | String                 | Reason Code                  | Y         |
| remarks                    | String                 | Remarks                      | Y         |
| simulation                 | boolean                | Simulation                   | Y         |
| transactionReferenceNumber | String                 | Transaction Reference Number | Y         |

**Output:****Table 4–11** *recomputeTransactionPrice Output Type*

| Type                              | Description                                          |
|-----------------------------------|------------------------------------------------------|
| ProcessedBasePriceInquiryResponse | Method returns Processed Base Price Inquiry Response |

**OBP Service Name:****Table 4–12** *recomputeTransactionPrice Service Classes*

|                              |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                                                                                                                                                                                                                     |
| Method name                  | public ProcessedBasePriceInquiryResponse<br>recomputeTransactionPrice(PricingEventContextDTO<br>pricingContextDTO, String feeChargeDetailId, String<br>ticketNumber, MoneyDTO newBasePrice, Date asOnDate, String<br>currencyCode, String eventCode, String reasonCode, String<br>remarks, boolean simulation)                                        |
| OBP Application Service Name | EventPriceApplicationService                                                                                                                                                                                                                                                                                                                          |
| Method name                  | public ProcessedBasePriceInquiryResponse<br>recomputeTransactionPrice(SessionContext sessionContext,<br>PricingEventContextDTO pricingContextDTO, String<br>feeChargeDetailId, MoneyDTO newBasePrice, Date asOnDate,<br>CurrencyInformationDTO currencyInformationDTO, String<br>eventCode, String reasonCode, String remarks, boolean<br>simulation) |

## 4.5 intimatePricing

**Description:**

Intimate pricing for a transaction with its reference number and ticket number.

**Syntax:**

```
public PricingIntimationResponse intimatePricing(PricingEventContextDTO pricingContext,
TransactionDetailsDTO[] transactionDetailsDTOS)
```

**Input:**

**Table 4–13 intimatePricing Input Parameter**

| Parameter              | Type                    | Description                     | Mandatory |
|------------------------|-------------------------|---------------------------------|-----------|
| pricingContext         | PricingEventContextDTO  | Pricing Event Context DTO       | Y         |
| transactionDetailsDTOS | TransactionDetailsDTO[] | List of Transaction Details DTO | Y         |

**Output:**

**Table 4–14 intimatePricing Output Type**

| Type                      | Description                                |
|---------------------------|--------------------------------------------|
| PricingIntimationResponse | Method returns Pricing Intimation Response |

**OBP Service Name:**

**Table 4–15 intimatePricing Service Classes**

|                              |                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                                               |
| Method name                  | public PricingIntimationResponse intimatePricing<br>(PricingEventContextDTO pricingContext, TransactionDetailsDTO<br>[] transactionDetailsDTOS)                                 |
| OBP Application Service Name | IntimationApplicationService                                                                                                                                                    |
| Method name                  | public PricingIntimationResponse intimatePricing(SessionContext<br>sessionContext,<br>PricingEventContextDTO pricingContext,<br>TransactionDetailsDTO[] transactionDetailsDTOS) |

## 4.6 fetchPaymentSource

**Description:**

Fetch all payment sources.

**Syntax:**

```
public TransactionCodeParametersInquiryResponse fetchPaymentSource():
```

**Input:**

**Table 4–16 fetchPaymentSource Input Parameter**

| Parameter | Type | Description | Mandatory |
|-----------|------|-------------|-----------|
| NA        | NA   | NA          | NA        |

**Output:****Table 4–17 fetchPaymentSource Output Type**

| Type                                     | Description                                            |
|------------------------------------------|--------------------------------------------------------|
| TransactionCodeParametersInquiryResponse | Method returns Transaction Code Parameters for Inquiry |

**OBP Service Name:****Table 4–18 fetchPaymentSource Service Classes**

|                              |                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryCommonServiceAdapter                                                                                           |
| Method name                  | public TransactionCodeParametersInquiryResponse<br>fetchAllTransactionCodeParameters()                                 |
| OBP Application Service Name | TransactionCodeParametersApplicationService                                                                            |
| Method name                  | public TransactionCodeParametersInquiryResponse<br>fetchAllTransactionCodeParameters(SessionContext<br>sessionContext) |

## 4.7 getRegionCode

**Description:**

Get region code for input branch code

**Syntax:**

```
public String getRegionCode(String branchCode)
```

**Input:****Table 4–19 getRegionCode Input Parameter**

| Parameter  | Type   | Description | Mandatory |
|------------|--------|-------------|-----------|
| branchCode | String | Branch Code | Y         |

**Output:****Table 4–20 getRegionCode Output Type**

| Type   | Description                 |
|--------|-----------------------------|
| String | Method returns Region Codes |

**OBP Service Name:****Table 4–21 getRegionCode Service Classes**

|                        |                                                  |
|------------------------|--------------------------------------------------|
| NGP Adapter Class Name | RecoveryCommonServiceAdapter                     |
| Method name            | public String fetchRegionCode(String branchCode) |

|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| OBP Application Service Name | RegulatoryRegionService                                              |
| Method name                  | public String fetchRegulatoryRegionForGivenBranch(String branchCode) |

## 4.8 interestComputationalInquiry

### Description:

This method returns information about how interest was computed on an arrangement for an InterestClass and an InterestDivision between 'fromDate' and 'toDate' when we are selecting search Mode from Recovery.

### Syntax:

```
public InterestComputationDetailsResponse interestComputationalInquiry(String accountNumber, int depositNumber, Date fromDate, Date toDate)
```

### Input:

**Table 4–22 interestComputationalInquiry Input Parameter**

| Parameter     | Type   | Description    | Mandatory |
|---------------|--------|----------------|-----------|
| accountNumber | String | Account Number | Y         |
| depositNumber | int    | Deposit Number | Y         |
| fromDate      | Date   | From Date      | Y         |
| toDate        | Date   | To Date        | Y         |

### Output:

**Table 4–23 interestComputationalInquiry Output Type**

| Type                               | Description                                 |
|------------------------------------|---------------------------------------------|
| InterestComputationDetailsResponse | Method returns interest Computation Details |

### OBP Service Name:

**Table 4–24 interestComputationalInquiry Service Classes**

|                              |                                                                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryInterestAdapter                                                                                                                                                                                                                             |
| Method name                  | public InterestComputationDetailsResponse interestComputationalInquiry(String accountNumber, int depositNumber, Date fromDate, Date toDate)                                                                                                         |
| OBP Application Service Name | InterestInquiryApplicationService                                                                                                                                                                                                                   |
| Method name                  | public InterestComputationDetailsResponse inquireInterestComputationDetailsForRange(SessionContext sessionContext, String accountId, int depositNumber, InterestClass interestClass, InterestDivision interestDivision, Date fromDate, Date toDate) |



## 4.9 interestInquiry

### Description:

This method returns information about how interest was computed on an arrangement for an InterestClass and an InterestDivision between 'fromDate' and 'toDate' when we are selecting ON Selection Mode from Recovery.

### Syntax:

```
public InterestEventsResponse interestInquiry(String accountNumber, int depositNumber, Date fromDate, Date toDate)
```

### Input:

**Table 4–25 interestInquiry Input Parameter**

| Parameter     | Type   | Description    | Mandatory |
|---------------|--------|----------------|-----------|
| accountNumber | String | Account Number | Y         |
| depositNumber | int    | Deposit Number | Y         |
| fromDate      | Date   | From Date      | Y         |
| toDate        | Date   | To Date        | Y         |

### Output:

**Table 4–26 interestInquiry Output Type**

| Type                   | Description                    |
|------------------------|--------------------------------|
| InterestEventsResponse | Method returns Interest Events |

### OBP Service Name:

**Table 4–27 interestInquiry Service Classes**

|                              |                                                                                                                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryInterestAdapter                                                                                                                                                                                                                                                                   |
| Method name                  | public InterestEventsResponse interestInquiry(String accountNumber, int depositNumber, Date fromDate, Date toDate)                                                                                                                                                                        |
| OBP Application Service Name | InterestInquiryApplicationService                                                                                                                                                                                                                                                         |
| Method name                  | public InterestEventsResponse inquireInterestEventsForRange(SessionContext sessionContext, String accountId, int depositNumber, InterestClass interestClass, InterestDivision interestDivision, Date startDate, Date endDate, boolean includeReversedEvents, InterestPhase interestPhase) |

## 4.10 fetchRatesForArrangementForDateRange

### Description:

This class is used to fetch all the rates for the given arrangementNumber within the mentioned date range.

### Syntax:

public NetRateInquiryResponse fetchRatesForArrangementForDateRange(String accountNo, Date startDate, Date endDate) throws Exception

**Input:**

**Table 4–28 fetchRatesForArrangementForDateRange Input Parameter**

| Parameter     | Type   | Description    | Mandatory |
|---------------|--------|----------------|-----------|
| accountNumber | String | Account Number | Y         |
| startDate     | Date   | Start Date     | Y         |
| endDate       | Date   | End Date       | Y         |

**Output:**

**Table 4–29 fetchRatesForArrangementForDateRange Output Type**

| Type                   | Description                     |
|------------------------|---------------------------------|
| NetRateInquiryResponse | Method returns Net Rate Inquiry |

**OBP Service Name:**

**Table 4–30 fetchRatesForArrangementForDateRange Service Classes**

|                              |                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                                                                                                                                                                                     |
| Method name                  | public NetRateInquiryResponse fetchRatesForArrangementForDateRange(SessionContext p1, PricingEventContextDTO p2, String accountNo, Date p3, Date from, Date to, boolean p4, EventRateVarianceMaintenanceDTO p8)                                                                                                       |
| OBP Application Service Name | RateInquiryApplicationService                                                                                                                                                                                                                                                                                         |
| Method name                  | public NetRateInquiryResponse fetchRatesForArrangementForDateRange(SessionContext sessionContext, PricingEventContextDTO pricingContextDTO, String arrangementNumber, Date asOnDate, Date startDate, Date endDate, boolean useUnauthorisedVariances, EventRateVarianceMaintenanceDTO eventRateVarianceMaintenanceDTO) |

## 4.11 getCommissionroundedAmount

**Description:**

**Syntax:**

public String getCommissionroundedAmount(BigDecimal commissionAmt, String acctCurrency, String commissionCode)

**Input:**

**Table 4–31 getCommissionroundedAmount Input Parameter**

| Parameter      | Type       | Description       | Mandatory |
|----------------|------------|-------------------|-----------|
| commissionAmt  | BigDecimal | Commission Amount | Y         |
| acctCurrency   | String     | Currency          | Y         |
| commissionCode | String     | Commission Code   | Y         |

**Output:****Table 4–32 getCommissionroundedAmount Output Type**

| Type   | Description                              |
|--------|------------------------------------------|
| String | Method returns Commission Rounded Amount |

**OBP Service Name:****Table 4–33 getCommissionroundedAmount Service Classes**

|                              |                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryCommonServiceAdapterr                                                                                             |
| Method name                  | public BigDecimal getCommissionAmount(BigDecimal paymentAmount, String accountCurrency, String roundingMethod)            |
| OBP Application Service Name | CoreService                                                                                                               |
| Method name                  | public BigDecimal roundAmount(Money srcMoney, RoundingMethod roundingMethod, NearestRoundingAmount nearestRoundingAmount) |

## 4.12 fetchPurposeDescr

**Description:**

This method returns description of the expense purpose code.

**Syntax:**

```
public PurposelInquiryResponse fetchPurposeDescr(PurposeDTO purposeDTO) throws Exception.
```

**Input:****Table 4–34 fetchPurposeDescr Input Parameter**

| Parameter  | Type       | Description | Mandatory |
|------------|------------|-------------|-----------|
| purposeDTO | PurposeDTO | Purpose DTO | Y         |

**Output:****Table 4–35 fetchPurposeDescr Output Type**

| Type                    | Description                    |
|-------------------------|--------------------------------|
| PurposelInquiryResponse | Method returns Purpose Inquiry |

**OBP Service Name:****Table 4–36 fetchPurposeDescr Service Classes**

|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryCommonServiceAdapter                                                                     |
| Method name                  | public PurposeInquiryResponse fetchPurpose(PurposeDTO purposeDTO)                                |
| OBP Application Service Name | PurposeApplicationService                                                                        |
| Method name                  | public PurposeInquiryResponse fetchPurpose(SessionContext sessionContext, PurposeDTO purposeDTO) |

## 4.13 fetchreasonCode

**Description:**

To get reason code.

**Syntax:**

```
public ReasonCodesInquiryResponse fetchreasonCode(ReasonCodesDTO reasonCodesDTO)
```

**Input:****Table 4–37 fetchreasonCode Input Parameter**

| Parameter      | Type           | Description      | Mandatory |
|----------------|----------------|------------------|-----------|
| reasonCodesDTO | ReasonCodesDTO | Reason Codes DTO | Y         |

**Output:****Table 4–38 fetchreasonCode Output Type**

| Type                       | Description                            |
|----------------------------|----------------------------------------|
| ReasonCodesInquiryResponse | Method returns reason Codes of Inquiry |

**OBP Service Name:****Table 4–39 fetchreasonCode Service Classes**

|                              |                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryCommonServiceAdapter                                                                                     |
| Method name                  | public ReasonCodesInquiryResponse fetchreasonCode(ReasonCodesDTO reasonCodesDTO)                                 |
| OBP Application Service Name | ReasonCodesApplicationService                                                                                    |
| Method name                  | public ReasonCodesInquiryResponse fetchReasonCodes(SessionContext sessionContext, ReasonCodesDTO reasonCodesDTO) |

## 4.14 closePricingPlan

**Description:**

This method closes the pricing plan setup on account during Account setup in Recovery.

**Syntax:**

```
public void closePricingPlan(String arrangementNumber)
```

**Input:****Table 4–40 closePricingPlan Input Parameter**

| Parameter         | Type   | Description        | Mandatory |
|-------------------|--------|--------------------|-----------|
| arrangementNumber | String | Arrangement Number | Y         |

**Output:****Table 4–41 closePricingPlan Output Type**

| Type | Description |
|------|-------------|
| Void | NA          |

**OBP Service Name:****Table 4–42 closePricingPlan Service Classes**

|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                  |
| Method name                  | public TransactionStatus closePricingPlan(String arrangementNumber)                                |
| OBP Application Service Name | ContractApplicationService                                                                         |
| Method name                  | public TransactionStatus closePricingPlan(SessionContext sessionContext, String arrangementNumber) |

## 4.15 doDailyInterestComputation

**Description:**

This method intimates Interest module to compute interest as per input request parameters.

**Syntax:**

```
public void doDailyInterestComputation(String accountId, RecoveryBucketInformationDTO
bucketInformation, String productCategory, String region, Date requestDate, Date effectiveDate, boolean
isCredit, String transactionRefNbr, boolean isBackDatedProcessing)
```

**Input:****Table 4–43 doDailyInterestComputation Input Parameter**

| Parameter | Type   | Description                   | Mandatory |
|-----------|--------|-------------------------------|-----------|
| acctid    | String | Account Identification Number | Y         |

| Parameter             | Type                         | Description                     | Mandatory |
|-----------------------|------------------------------|---------------------------------|-----------|
| bucketInformation     | RecoveryBucketInformationDTO | Bucket Information DTO          | Y         |
| productCategory       | String                       | Product Category                | Y         |
| region                | String                       | Region                          | Y         |
| requestDate           | String                       | Request Date                    | Y         |
| effectiveDate         | Date                         | Effective Date                  | Y         |
| isCredit              | boolean                      | Is Credit Present               | Y         |
| transactionRefNbr     | String                       | Transaction Reference Number    | Y         |
| isBackDatedProcessing | boolean                      | Is BackDated Processing Present | Y         |

**Output:****Table 4–44 doDailyInterestComputation Output Type**

| Type | Description |
|------|-------------|
| Void | NA          |

**OBP Service Name:****Table 4–45 doDailyInterestComputation Service Classes**

|                              |                                                                                                                                                                                                                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryInterestAdapter                                                                                                                                                                                                                                                                       |
| Method name                  | public InterestComputationDTO doDailyInterestComputation (String accountId, BucketInformationDTO bucketInfo, String productCategory, String region, Date requestDate, Date effectiveDate, boolean isBatchMode, Date chargeOffDate, String transactionRefNbr, boolean interestBackdatedReplay) |
| OBP Application Service Name | InterestComputationService                                                                                                                                                                                                                                                                    |
| Method name                  | public InterestComputationResponse doInterestComputation (InterestComputationRequest interestComputationRequest, IFactContext factContext)                                                                                                                                                    |

## 4.16 interestComputationAndCapitalization

**Description:**

This method intimates interest to perform month end interest computation.

**Syntax:**

```
public RecoveryInterestComputationDTO interestComputationAndCapitalization
(RecoveryInterestComputationDTO interestComputationDTO)
```

**Input:**

**Table 4–46 interestComputationAndCapitalization Input Parameter**

| Parameter              | Type                           | Description                       | Mandatory |
|------------------------|--------------------------------|-----------------------------------|-----------|
| interestComputationDTO | RecoveryInterestComputationDTO | Recovery Interest Computation DTO | Y         |

**Output:****Table 4–47 interestComputationAndCapitalization Output Type**

| Type                           | Description                                 |
|--------------------------------|---------------------------------------------|
| RecoveryInterestComputationDTO | Method returns Recovery InterestComputation |

**OBP Service Name:****Table 4–48 interestComputationAndCapitalization Service Classes**

|                              |                                                                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryBatchAdapter                                                                                                                                   |
| Method name                  | public InterestComputationBatchResponse interestComputationAndCapitalization (interestComputationBatchWrapperDTO interestComputationDTO)               |
| OBP Application Service Name | InterestComputationBatchApplicationService                                                                                                             |
| Method name                  | public InterestComputationBatchResponse read(SessionContext p_SessionContext, InterestComputationBatchWrapperDTO p_InterestComputationBatchWrapperDTO) |

## 4.17 closeInterestPlan

**Description:**

This method will close interest plan.

**Syntax:**

```
public void closeInterestPlan(String hostAcctNbr)
```

**Input:****Table 4–49 closeInterestPlan Input Parameter**

| Parameter   | Type   | Description         | Mandatory |
|-------------|--------|---------------------|-----------|
| hostAcctNbr | String | Host Account Number | Y         |

**Output:****Table 4–50 closeInterestPlan Output Type**

| Type | Description |
|------|-------------|
| Void | NA          |

**OBP Service Name:****Table 4–51 closeInterestPlan Service Classes**

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryInterestAdapter                                                     |
| Method name                  | public void unRegisterInterestPlan(String accountNumber, int depositNumber) |
| OBP Application Service Name | InterestPlanRegistrationService                                             |
| Method name                  | public void unRegisterInterestPlan(String accountId, int depositNumber)     |

## 4.18 processUDStatusList

**Description:**

Get Risk indicator list with corresponding impact with all details.

**Syntax:**

```
public RecoveryStatusCardMaximizeWrapperDTO processUDStatusList(RecoveryStatusCardMaximizeWrapperDTO recoveryStatusCardMaximizeWrapperDTO)
```

**Input:****Table 4–52 processUDStatusList Input Parameter**

| Parameter                            | Type                                 | Description                               | Mandatory |
|--------------------------------------|--------------------------------------|-------------------------------------------|-----------|
| recoveryStatusCardMaximizeWrapperDTO | RecoveryStatusCardMaximizeWrapperDTO | Recovery Status Card Maximize Wrapper DTO | Y         |

**Output:****Table 4–53 processUDStatusList Output Type**

| Type                                 | Description                            |
|--------------------------------------|----------------------------------------|
| RecoveryStatusCardMaximizeWrapperDTO | Method returns Recovery Status Details |

**OBP Service Name:****Table 4–54 processUDStatusList Service Classes**

|                        |                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name | RecoveryCommonAccountAdapter                                                                                               |
| Method name            | public WarningIndicatorResponse fetchAllAccountWarningIndicatorsBasedOnModule(WarningIndicatorLevel warningIndicatorLevel, |



|                              |                                                                                                                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | ModuleType moduleType).                                                                                                                                                                    |
| OBP Application Service Name | WarningIndicatorApplicationService                                                                                                                                                         |
| Method name                  | public WarningIndicatorResponse<br>fetchAllAccountWarningIndicatorsBasedOnModule<br>(SessionContext sessionContext, WarningIndicatorLevel<br>warningIndicatorLevel, ModuleType moduleType) |

## 4.19 processRiskIndicatorUDStatusList

### Description:

Get Risk indicator with corresponding impact with all details.

### Syntax:

```
public RecoveryStatusCardMaximizeWrapperDTO processRiskIndicatorUDStatusList(RecoveryStatusCardMaximizeWrapperDTO recoveryStatusCardMaximizeWrapperDTO)
```

### Input:

*Table 4–55 processRiskIndicatorUDStatusList Input Parameter*

| Parameter                            | Type                                 | Description                               | Mandatory |
|--------------------------------------|--------------------------------------|-------------------------------------------|-----------|
| recoveryStatusCardMaximizeWrapperDTO | RecoveryStatusCardMaximizeWrapperDTO | Recovery Status Card Maximize Wrapper DTO | Y         |

### Output:

*Table 4–56 processRiskIndicatorUDStatusList Output Type*

| Type                                 | Description                            |
|--------------------------------------|----------------------------------------|
| RecoveryStatusCardMaximizeWrapperDTO | Method returns Recovery Status Details |

## 4.20 processRiskIndUDStatusList

### Description:

Get Risk indicator list with corresponding impact with all details.

### Syntax:

```
public RecoveryStatusCardMaximizeWrapperDTO processRiskIndUDStatusList(RecoveryStatusCardMaximizeWrapperDTO recoveryStatusCardMaximizeWrapperDTO, String riskIndCode)
```

### Input:

**Table 4–57 processRiskIndUDStatusList Input Parameter**

| Parameter                            | Type                                 | Description                               | Mandatory |
|--------------------------------------|--------------------------------------|-------------------------------------------|-----------|
| recoveryStatusCardMaximizeWrapperDTO | RecoveryStatusCardMaximizeWrapperDTO | Recovery Status Card Maximize Wrapper DTO | Y         |

**Output:****Table 4–58 processRiskIndUDStatusList Output Type**

| Type                                 | Description                            |
|--------------------------------------|----------------------------------------|
| RecoveryStatusCardMaximizeWrapperDTO | Method returns Recovery Status Details |

**OBP Service Name:****Table 4–59 processRiskIndUDStatusList OBP Service Classes**

|                              |                              |
|------------------------------|------------------------------|
| NGP Adapter Class Name       | RecoveryCommonAccountAdapter |
| Method name                  | Method name                  |
| OBP Application Service Name | OBP Application Service Name |
| Method name                  | Method name                  |

## 4.21 intimatePricingForReversal

**Description:**

This method intimates Pricing module to reverse the amount knocked off against the expense during a payment event.

**Syntax:**

```
public boolean intimatePricingForReversal (FeeDetailsWrapperDTO feeDetailsWrapperDTO)
```

**Input:****Table 4–60 intimatePricingForReversal Input Parameter**

| Parameter            | Type                 | Description          | Mandatory |
|----------------------|----------------------|----------------------|-----------|
| feeDetailsWrapperDTO | FeeDetailsWrapperDTO | FeeDetailsWrapperDTO | Y         |

**Output:****Table 4–61 intimatePricingForReversal Output Type**

| Type    | Description                                                       |
|---------|-------------------------------------------------------------------|
| boolean | Method returns Boolean variable to indicate successful intimation |

**OBP Service Name:****Table 4–62 getExpenseList Service Classes**

|                              |                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                  |
| Method name                  | public PricingIntimationResponse intimatePricingForReversal (FeeDetailsWrapperDTO feeDetailsWrapperDTO)                                            |
| OBP Application Service Name | IntimationApplicationService                                                                                                                       |
| Method name                  | public PricingIntimationResponse intimateTransactionByFeeChargeCode(SessionContext sessionContext, TransactionDetailsDTO[] transactionDetailsDTOS) |

## 4.22 intimateReversalTransactionForAddExpenseEvent

**Description:**

This method reverses the expense.

**Syntax:**

```
public boolean intimateReversalTransactionForAddExpenseEvent
(ExpenseTransactionalDetailsDTO expenseTransactionalDetailsDTO)
```

**Input:****Table 4–63 intimateReversalTransactionForAddExpenseEvent Input Parameter**

| Parameter                      | Type                           | Description                   | Mandatory |
|--------------------------------|--------------------------------|-------------------------------|-----------|
| expenseTransactionalDetailsDTO | ExpenseTransactionalDetailsDTO | Expense Transactional details | Y         |

**Output:****Table 4–64 intimateReversalTransactionForAddExpenseEvent Output Type**

| Type    | Description                                                       |
|---------|-------------------------------------------------------------------|
| boolean | Method returns Boolean variable to indicate successful intimation |

**OBP Service Name:****Table 4–65 intimateReversalTransactionForAddExpenseEvent OBP Service Classes**

|                        |                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name | RecoveryPricingApplicationAdapter                                                                                            |
| Method name            | public boolean intimateReversalTransactionForAddExpenseEvent (ExpenseTransactionalDetailsDTO expenseTransactionalDetailsDTO) |

|                              |                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OBP Application Service Name | IntimationApplicationService                                                                                                                                                        |
| Method name                  | public PricingIntimationResponse intimateReversalTransactionForTicket( SessionContext sessionContext, PricingEventContextDTO pricingContext, String ticketNumber, String eventCode) |

## 4.23 fetchRIDetails

### Description:

To fetch Risk Indicator Details.

### Syntax:

```
public AccSetUpBatchWrapperDTO fetchRIDetails(AccSetUpBatchWrapperDTO p_AccSetUpBatchWrapperDTO)
```

### Input:

*Table 4–66 fetchRIDetails Input Parameter*

| Parameter               | Type                    | Description                     | Mandatory |
|-------------------------|-------------------------|---------------------------------|-----------|
| AccSetUpBatchWrapperDTO | AccSetUpBatchWrapperDTO | Account SetUp Batch Wrapper DTO | Y         |

### Output:

*Table 4–67 fetchRIDetails Output Type*

| Type                    | Description                            |
|-------------------------|----------------------------------------|
| AccSetUpBatchWrapperDTO | Method returns AccSetUpBatchWrapperDTO |

### OBP Service Name:

*Table 4–68 fetchRIDetails OBP Service Classes*

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryCommonAccountAdapter                                   |
| Method name                  | fetchWarningIndicator(WarningIndicatorDTO warningIndicatorDTO) |
| OBP Application Service Name | WarningIndicatorApplicationServiceProxy                        |
| Method name                  | fetchWarningIndicator(IWarningIndicator warningIndicator)      |

## 4.24 initiateBackdatedProcessing

### Description:

### Syntax:

```
public void initiateBackdatedProcessing(String arrangementNumber, Date backDatedValueDate)
```

### Input:

**Table 4–69 initiateBackdatedProcessing Input Parameter**

| Parameter          | Type   | Description                                         | Mandatory |
|--------------------|--------|-----------------------------------------------------|-----------|
| arrangementNumber  | String | ArrangementNumber                                   | Y         |
| backDatedValueDate | Date   | BackDatedValueDate for backdated payment processing | Y         |

**Output:****Table 4–70 initiateBackdatedProcessing Output Type**

| Type | Description |
|------|-------------|
| NA   | NA          |

**OBP Service Name:****Table 4–71 initiateBackdatedProcessing OBP Service Classes**

|                              |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryInterestAdapter                                                                    |
| Method name                  | public void initiateBackdatedProcessing(String arrangementNumber, Date backDatedValueDate) |
| OBP Application Service Name | RecoveryBackdatedInterestProcessingService                                                 |
| Method name                  | public void initiateBackdatedProcessing(String arrangementNumber, Date backDatedValueDate) |

## 4.25 intimatePricingForExpensePaymentReversal

**Description:****Syntax:**

```
public boolean intimatePricingForExpensePaymentReversal(FeeDetailsWrapperDTO feeDetailsWrapperDTO)
```

**Input:****Table 4–72 intimatePricingForExpensePaymentReversal Input Parameter**

| Parameter            | Type                 | Description             | Mandatory |
|----------------------|----------------------|-------------------------|-----------|
| feeDetailsWrapperDTO | FeeDetailsWrapperDTO | Fee Details Wrapper DTO | Y         |

**Output:****Table 4–73 intimatePricingForExpensePaymentReversal Output Type**

| Type    | Description                                                       |
|---------|-------------------------------------------------------------------|
| boolean | Method returns Boolean variable to indicate successful intimation |

**OBP Service Name:**

**Table 4–74 intimatePricingForExpensePaymentReversal OBP Service Classes**

|                              |                                                                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryPricingApplicationAdapter                                                                                                                                                                               |
| Method name                  | public PricingIntimationResponse intimatePricingForReversal (FeeDetailsWrapperDTO feeDetailsWrapperDTO) throws FatalException                                                                                   |
| OBP Application Service Name | IntimationApplicationService                                                                                                                                                                                    |
| Method name                  | public PricingIntimationResponse intimateTransactionByFeeChargeCode(SessionContext sessionContext, PricingEventContextDTO pricingContext, TransactionDetailsDTO[] transactionDetailsDTOS) throws FatalException |

## 4.26 createSettlementOfferForAccount

### Description:

This method creates system level settlement offer for account.

### Syntax:

```
public void createSettlementOfferForAccount(RecoverySettlementOffer_DTO RecoverySettlementOfferDTO) throws ApplicationError
```

### Input:

**Table 4–75 createSettlementOfferForAccount Input Parameter**

| Parameter                  | Type                        | Description                   | Mandatory |
|----------------------------|-----------------------------|-------------------------------|-----------|
| RecoverySettlementOfferDTO | RecoverySettlementOffer_DTO | Recovery Settlement Offer DTO | Y         |

### Output:

**Table 4–76 createSettlementOfferForAccount Output Type**

| Type | Description |
|------|-------------|
| NA   | -           |

### OBP Service Name:

**Table 4–77 createSettlementOfferForAccount OBP Service Classes**

|                              |                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGP Adapter Class Name       | RecoveryBatchAdapter                                                                                                                                                 |
| Method name                  | public void createSettlementOfferForAccount (SettlementOfferBatchWrapperDTO settlementOfferBatchWrapperDTO) throws Exception                                         |
| OBP Application Service Name | SettlementOfferBatchApplicationService                                                                                                                               |
| Method name                  | public SettlementOfferBatchResponse create(SessionContext p_ SessionContext, SettlementOfferBatchWrapperDTO p_ SettlementOfferBatchWrapperDTO) throws FatalException |



# 5 List of Localized Adapter APIs

This chapter provides a list of Localized Adapter APIs.

## 5.1 fetchVehicleDetails

### Description:

This method is used to fetch vehicle valuation detail from KBB (Kelly Blue Book).

### Syntax:

```
public LCMVehicleDetailsResponse  
fetchVehicleDetails(LCMVehicleDetailsDTO vehicleDetailsDTO, String submissionId)
```

### Input:

**Table 5–1 fetchVehicleDetails Input Parameter**

| Parameter                | Type                    | Description                                               | Mandatory |
|--------------------------|-------------------------|-----------------------------------------------------------|-----------|
| vehicleIdentificationNum | LCMVehicleDetailsKeyDTO | Vehicle Identification Number                             | Y         |
| vehicleId                | LCMVehicleDetailsDTO    | Vehicle ID (Can be any unique value sent from collection) | Y         |
| vehicleMakeType          | LCMVehicleDetailsDTO    | Vehicle Make Type                                         | Y         |
| vehicleModel             | LCMVehicleDetailsDTO    | Vehicle Model                                             | Y         |
| vehicleTrim              | LCMVehicleDetailsDTO    | Vehicle Trim                                              | Y         |
| vehicleYear              | LCMVehicleDetailsDTO    | Vehicle Year                                              | Y         |
| isVehicleNew             | LCMVehicleDetailsDTO    | will be defaulted to false                                | Y         |
| address                  | PostalAddress           | Vehicle Postal Address                                    | Y         |

### Output:

**Table 5–2 fetchVehicleDetails Output Type**

| Type                 | Description                                  |
|----------------------|----------------------------------------------|
| LCMVehicleDetailsDTO | Method returns LCM vehicle valuation details |

### OBP Service Name:

**Table 5–3 fetchVehicleDetailsOBP Service Classes**

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| NGP Adapter Class Name | CollectionRegionalVehicleProviderAdapter                                          |
| Method name            | fetchVehicleDetails(LCMVehicleDetailsDTO vehicleDetailsDTO,, String submissionId) |



## 5.1 fetchVehicleDetails

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|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| OBP Application Service Name | VehicleValuationApplicationServiceProxy                             |
| Method name                  | performVehicleValuation(VehicleValuationDTO<br>vehicleValuationDTO) |