

Oracle® Banking Platform Collections and Recovery

Adapter Configuration Guide

Release 2.12.0.0.0

F43567-01

June 2021

Oracle Banking Platform Collections and Recovery Adapter Configuration Guide, Release 2.12.0.0.0

F43567-01

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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

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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
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<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

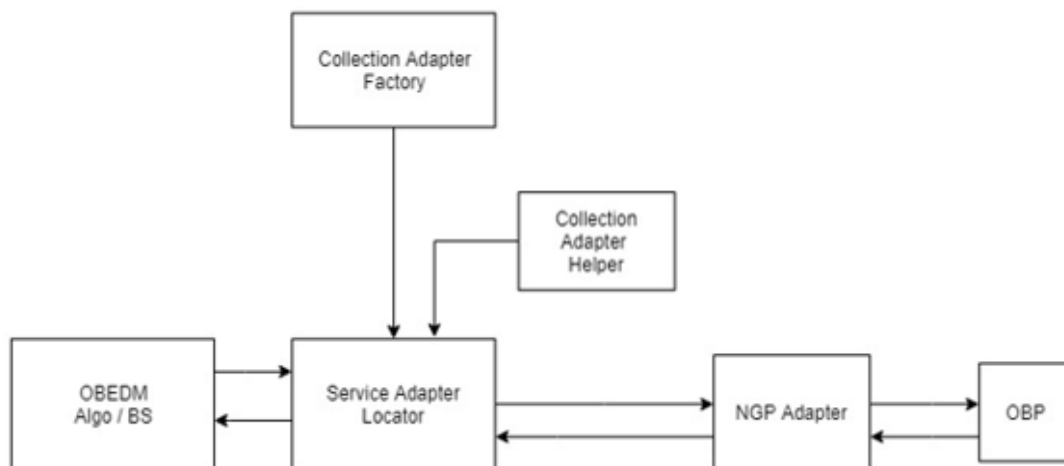
Oracle Banking Collections and Oracle Banking Recovery interacts with multiple systems available within the enterprise arena. Transaction data owned by banking host systems are forwarded to Oracle Banking Collections and Oracle Banking Recovery. Updates on the transaction data in the Oracle Banking Collections and Oracle Banking Recovery module are updated on the banking host and other integrated modules/systems as well. In addition, Oracle Banking Collections and Oracle Banking Recovery application is designed to integrate with any other services by using the adapter pattern. Oracle Banking Collections and Oracle Banking 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 Collections and Oracle Banking Recovery application with any other host or enterprise service. This document covers the details of the adapters being shipped with Oracle Banking Collections and Oracle Banking 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 Collections and Oracle Banking 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.
EVENT_ HOST_ HELPER	com.splwg.ccb.domain.externalservice.adapter.helper.NGPCollectionAdapterHelper	This adapter converts the DTO of one

Adapter	Implementation Class	Description
		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 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) updateInCollectionIndicator(acctExtn.getAccountNumber())
OBP Application Service Name	DDAWarningIndicatorApplicationService
Method name	setRecoveryFlagWarningIndicator(sessionContext, 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 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. (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 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 outboundDocumentRequestDTO)
OBP Application Service Name	OutboundDocumentApplicationService
Method name	generateDocument(SessionContext sessionContext, OutboundDocumentRequestDTO 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 O	CollOutboundDocumentRequestDT O	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 3–50 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. 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). 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(), 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. CollRuleFactDetailsInquiryResponse object wraps list of CollFactDetailsDTO, which holds fact information. 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. Key = fact name and 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 O	HardshipApprovalRequestDT O	HardshipApprovalRequest 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 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 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 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 validateDtIsByDmdc Input Parameter

Parameter	Type	Description	Mandatory
notDt	Date	Indicates notice Date	Y

Parameter	Type	Description	Mandatory
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 validateDtIsByDmdc Output Type*

Type	Description
ScraDtIsBean	Method returns ScraDtIsBean

OBP Service Name:*Table 3–147 validateDtIsByDmdcOBP 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 (WarningIndicatorDetailsDTO warningIndicatorDetailsDTO)
OBP Application Service Name	DDAWarningIndicatorApplicationService
Method Name	modifyRiskIndicatorOnAccount (sessionContext, 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 accountType, 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

Parameter	Type	Description	Mandatory
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 validateHardshipReliefRequest(hardshipReliefRequestDTO);
OBP Application Service Name	HardshipReliefRequestApplicationService
Method Name	validateHardshipReliefRequest(fetchSessionContext(), hardshipReliefRequestDTO, null);

3.59 executeRuleForAllRuleType

Description: This method is used to execute rule based on rule ID.**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

Parameter	Type	Description	Mandatory
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) 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: This method is used to update In Collection indicator for party based on treatment done in collections.

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 (RecoveryAccountDetailsDTO 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 fetchAllFieldsMaskedInDataExport(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 needs to get fetched.	Y
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 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 Puposes

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 getComputePriceForPurpose(PricingEventContextDTO pricingEventContextDTO, String arrangementNumber, String eventCode, String currency)
OBP Application Service Name	EventPriceApplicationService
Method name	public WrappedPriceFeatureInquiryResponse getPriceOnEventSimulation(SessionContext sessionContext, PricingEventContextDTO pricingContextDTO, String arrangementNumber, String evenCode, Date asOnDate, 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 recomputeTransactionPrice(PricingEventContextDTO pricingContextDTO, String feeChargeDetailId, String ticketNumber, MoneyDTO newBasePrice, Date asOnDate, String currencyCode, String eventCode, String reasonCode, String remarks, boolean simulation)
OBP Application Service Name	EventPriceApplicationService
Method name	public ProcessedBasePriceInquiryResponse recomputeTransactionPrice(SessionContext sessionContext, PricingEventContextDTO pricingContextDTO, String feeChargeDetailId, MoneyDTO newBasePrice, Date asOnDate, CurrencyInformationDTO currencyInformationDTO, String eventCode, String reasonCode, String remarks, boolean 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 (PricingEventContextDTO pricingContext, TransactionDetailsDTO [] transactionDetailsDTOS)
OBP Application Service Name	IntimationApplicationService
Method name	public PricingIntimationResponse intimatePricing(SessionContext sessionContext, PricingEventContextDTO pricingContext, 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 fetchAllTransactionCodeParameters()
OBP Application Service Name	TransactionCodeParametersApplicationService
Method name	public TransactionCodeParametersInquiryResponse fetchAllTransactionCodeParameters(SessionContext 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: This method fetches commission amount from common services.

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 fetchAllAccountWarningIndicatorsBasedOnModule (SessionContext sessionContext, WarningIndicatorLevel 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	ppublic 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: This method is used to intimate interest module for backdated process.

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: This method is used to intimate pricing module for expense reversal.

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

OBP Application Service Name	VehicleValuationApplicationServiceProxy
Method name	performVehicleValuation(VehicleValuationDTO vehicleValuationDTO)