

Retail Lending
Oracle FLEXCUBE Universal Banking
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1. About this Manual

1.1 Introduction

This manual is designed to help acquaint you with the Retail/Consumer Lending module of Oracle FLEXCUBE.

It provides an overview of the module and guides you, through the various steps involved in granting loans to the customers of your bank.

You can further obtain information about to a particular field by placing the cursor on the relevant field and striking the <F1> key on the keyboard.

1.2 Audience

This manual is intended for the following User/User Roles:

Role	Function
Back office data entry clerk	Input functions for contracts
Back office managers/officers	Authorization functions
Product Managers	Product definition and authorization
End of Day operators	Processing during End of Day/ Beginning of Day
Financial Controller / Product Managers	Generation of reports

1.3 Organization

This manual is organized into the following chapters:

Chapter 1	<i>About this Manual</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	<i>Retail Lending—an Overview</i> is a snapshot of the features that the module provides.
Chapter 3	<i>Maintenances and Operations</i> discusses the procedure to maintain details of the account which are necessary for disbursing the loan.
Chapter 4	<i>Defining Product Categories and Products</i> talks about defining the attributes specific to setting up a loan product.
Chapter 5	<i>Account Creation</i> talks about creating customer accounts.
Chapter 6	<i>Capturing Additional Details for a Loan</i> talks about the additional details that you can capture for a Loan account.

Chapter 7	<i>Making Manual Disbursements</i> describes the procedure to make a loan disbursement using the 'Manual' mode.
Chapter 8	<i>Operations</i> deals with the payments details and changes that you can effect on a loan.
Chapter 9	<i>Batch Processes</i> deals with processing the batch operations.
Chapter 10	<i>Annexure A: Accounting Entries and Advices</i> explains the types of accounting entries and advices generated at each stage in the lifecycle of a loan.
Chapter 11	<i>Reports</i> lists the possible reports that can be generated for the Module.
Chapter 12	<i>Glossary</i> lists the important terms and its definition
Chapter 13	<i>Screen Glossary</i> lists the function ID and the function description of the screens covered as part of this User Manual.








1.4 Related Documents













You may need to refer to any or all of the User Manuals while working on the Retail/Consumer Lending module:

- Core
- Procedures
- Settlements
- Interest
- User Defined

1.5 Glossary of Icons

This User Manual may refer to all or some of the following icons.

Icons	Function
	New
	Copy
	Save
	Delete
	Unlock
	Print
	Close

Icons	Function
	Re-open
	Reverse
	Template
	Roll-over
	Hold
	Authorize
	Liquidate
	Exit
	Sign-off
	Help
	Add
	Delete

Refer the Procedures User Manual for further details about the icons.

2. Retail Lending – An Overview

2.1 Introduction

The primary function of banks is to accept deposits and use it to dispense loans. Every time a bank sanctions a loan it is creating an asset in its books. The interest a bank earns from lending contributes substantially to its bottom line. Lending itself stimulates business activity in the economy. Loan products offered by banks can be of various tenors, rates of interest, repayment schedules and complexity. Thus, you can have short or long term loans; loans at fixed or floating rates or a combination of the two; loans disbursed and repaid as a bullet or in installments and so on.

A loan passes through various stages or events from the moment it is given till the time it is repaid. The process begins with a loan application form in which the borrower is asked to furnish their details and the kind of facility requested. The bank's loans or credit department appraises the application and takes a decision whether the applicant is eligible for the loan asked and whether loan can be extended to that customer. The bank will apply its own parameters in arriving at this decision. The factors which will go into this include the standing, character, track record and the collaterals (securities) offered to secure the loan. Assuming that the loan is sanctioned the bank gives a commitment and stipulates terms and conditions governing the same. The bank may levy a processing charge at this stage. The loan amount is then disbursed and credited to the settlement account of the borrower who draws the amount, uses it for the purpose for which it was taken. Interest accrues on the account which has to be serviced by the borrower besides repaying the principal amount as per the repayment schedule. If the loan is not repaid or there is a delay the loan asset's status is changed to reflect its deterioration. The bank may also charge penal interest or interest on interest in such a scenario. Moreover then bank may have to make provisions from its profits for such sub-standard loans. On the other hand if the loan account is conducted well it will close on the date the last installment is due and paid. On closure, the bank will return or lift the collaterals which it had taken. The loan cycle is now complete.

The CL module in Oracle FLEXCUBE captures and maintains the parameters with respect to the life cycle of the loan (outlined above) once the application moves to the account processing stage..

The application moves to an account processing stage when the applicant becomes a customer of your bank. The customer's record will now be available in the bank's customer database. A Loan account is created which will be used to service the customer. Loan account creation involves capturing the details of the final loan application into the features of the Loan. Loan Accounts in Oracle FLEXCUBE will be created under Account Templates called 'Products'. The system resolves the product category and product on the basis of the application details.

The Loan Account thus created, reports to the Asset GL of the bank. Disbursements will debit the loan account and hence a loan with outstanding balances will be in debit. Payments are credited to the loan account. At the end of complete re-payment, the account becomes zero balanced and is closed.

Product Categories are a logical grouping of certain products such as Vehicle Loans, Home Loans etc. The banks/ FIs can setup different products based on services they offer.

When a customer loan is sanctioned, a loan account will be created under a specific loan account product.

Hence, its' features would default from the account product. The Loan account so created will be used for further Loan servicing such as disbursements. The loan account balance will represent the outstanding Principal that was advanced to the Customer. Interests will be calculated on this balance based on the schedule and pricing setup. The Account processing stage involves the following:

- Loan Account Creation
- Loan Initiation and Schedule set-up
- Payments of Schedules
- Collections and Delinquency Management
- Loan Status Change Processing
- Amendments to Loans
- Disbursements

2.1.1 Interface with Other Modules

The CL Module interfaces with the following sub-systems/Modules of Oracle FLEXCUBE

- Security Management System (SMS)
- Core Services like Currency, General Ledger, End of Day, Accounting
- Central Liability (Limits)
- Bills

3. Maintenances and Operations

3.1 Introduction

Before you begin using the Consumer Lending module, you must maintain the following information in the system:

Bank Parameters

These are parameters that you need to specify at the bank level. These will include the following:

- Interest calculation parameters
- Amount blocks on inactive accounts
- Splitting of accounting entries for the offset leg
- Site specific maintenances
- Tax months to be considered for taxing the Loan Accounts

Branch Parameters

These are parameters that you need to specify at the branch level. These will determine the following:

- Batch processing during holidays
- Netting of accounting entries for accrual, liquidation and status change
- Default Settlement Accounts
- Format/Mask for generation of Account numbers etc
- The structure of the schedule
- Schedule gap treatment

In addition, you also have to maintain the following:

UDE (User Data Elements) Rules

UDEs are used to build formulae to calculate the amount of interest applicable. These include entities like Interest Rate, Amount Slab etc. that will hold values you provide. The UDEs themselves are defined at the product level but you can use these UDEs to build rules with different conditions based on which the UDE value should be arrived at.

You can maintain the UDE values at Product and Account level. You can also maintain Fixed amount UDEs in other currencies.

Repayment holiday periods

For a calendar year, you can define holiday periods for customers during which they can avail a repayment holidays.

Check Lists

For different events, you can maintain check lists. The check lists that you maintain here will be validated during the execution of that event while processing the loan.

System Data Elements (SDEs)

Information that is constantly updated by the system, for instance, the balance in an account, number of transactions processed etc. is referred to as SDEs. This information is readily available for computation of penalties, Interest or charges. You need to identify the SDEs applicable for this module.

Floating Rate maintenance

You can maintain floating rates for a Rate Code, Currency, Amount Slab and Effective Date combination

User Defined Policies

These are validation and operations that are performed during the life cycle of a loan

Promotions

Promotions are special offers whereby you can offer special incentives/ concessions to customers. You can link loans to one or more promotions

The above maintenances are discussed in detail in this chapter

3.2 Maintaining Bank Parameters

You can maintain the bank parameters in the 'Lending Bank Parameters' screen. You can invoke this screen by typing 'CLDBPMNT' in the field at the top right corner of the Application toolbar and clicking on the adjoining arrow button.

Split Offset Leg

Check this box if you wish to have split accounting entries for the offset leg of a transaction. For example, if a certain transaction debits a particular GL and credits two different GLs (as in off balance sheet entries), the system will pass two debit entries for the first GL to be in sync with the credit entries to the other GLs. If this option is not checked the accounting entries will be as under:

Dr/Cr	Account	Amount
Dr	00000001	50
Cr	00000011	20
Cr	00000022	30

If this option is checked the accounting entries will be as under:

Dr/Cr	Account	Amount
Dr	00000001	20
Cr	00000011	20
Dr	00000001	30
Cr	00000022	30

Archive Processed Records from events diary

The parameter Reference Date, Frequency, Unit will be used to archive the processed records in Event Diary

The archival will be done in EOD by batch function. If this parameter is not set then no archive will be done.

Purge Inactive Loans

Specify the tenor in units of days, months and year, for which you want to keep the inactive loans for purging.

Cut off Transactions

Select the Cutoff GL from the option list. Transactions after 2:00 pm on a day will be considered on the next working day. The accounting entries for such transactions will be passed into the Cutoff GL and not the Settlement GL.

Maximum Tax Period

Maximum Tax Months

Enter the maximum tax months. This will be used in tax calculation for the loan account, i.e., minimum of loan tenor or maximum tax months.

The value entered in this field will be compared with the Loan Tenor when Taxing the Loan accounts and minimum of these values will be considered when taxing. For instance if the maximum tax months is 6 and Loan has a tenor of 12 Months then the particular Loan Account will be taxed for 6 Months (Minimum of the Loan tenor and Bank Level Maximum Tax months value).

Rate Expiry Alert

Notice Days

Specify the Notice days under section Rate Expiry Alert.

The system generates alerts for rates that are nearing the expiry date. These alerts are generated before the expiry date of a rate record and if no action is taken then it will continue until expiry date. These alerts are logged in a separate data store.

Payment Reversal Parameters

Specify the following payment reversal parameter details:

Maximum Days for Payment Reversal

Specify the maximum days for payment reversal. The system verifies that the reversal of payment does not exceed the value specified here.

Maximum Back Value Dated Payment Days

Specify the maximum back value dated payment days. The system verifies that the payment does not exceed the value specified here.



'Maximum Days for Payment Reversal' and 'Maximum Back Value Dated Payment Days' are considered based on 'working days'.

Tax Details

GMF Tax Scheme

Specify the tax scheme for GMF. The adjoining option list displays all the valid tax schemes maintained in the system. You can choose the appropriate one.

IVA Tax Scheme

Specify the tax scheme for IVA. The adjoining option list displays all the valid tax schemes maintained in the system. You can choose the appropriate one.



The GMF and IVA factors are derived based on these schemes.

Collateral

Real Collateral Coverage

Specify the percentage of loan principal that must be covered by real collateral in order to classify a given loan as real.

Sec Def Purging Year

Specify the number of years after which the price codes need to be purged.

3.3 Maintaining Branch Parameters

You can maintain the branch parameters in the 'Lending – Branch Parameters' screen. You can invoke this screen by typing 'CLDBRNPT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Branch parameters include the following:

Branch Code

You have to indicate the code of the branch for which the parameters have to be maintained. The codes of the various branches of your bank are available in the option list provided.

When you select the code, the branch name is also displayed alongside.

Process Till Next Working Day – 1

This specification will determine the day on which automatic events such accrual, liquidation etc. falling due on a holiday, should be processed. If you select this option, events scheduled for a holiday will be processed on the last working day before the holiday.

Example

Assume that the current system date is 15th May '05. Further, 16th and 17th are holidays. If you select 'Process Till Next Working Day – 1', when you execute the batch program during EOD of 15th May, the events due on 16th and 17th will also be processed.

If you do not select this option, processing will be done upto the system date i.e. the current date. The automatic events due on a holiday will be processed as part of the batch program run at BOD on the next working day after the holiday.

Consider the example discussed above, if you do not check this option, the events due on 16th and 17th will be processed as part of BOD operations on 18th May '05, which the next working day after the holidays.

Compare PPPO Basis - Indicate the type of Compare PPPO Tenor based on the following option:

- Branch - If the value of 'Compare PPPO Tenor' at branch level is modified at a later date, the system will use the new value for processing the subsequent accounting entries for the existing accounts.
- Account – If the value of 'Compare PPPO Tenor' at branch level is modified at a later date, system will still use the old value for processing the accounting entries for the existing accounts (which was available in the account at the time of account creation).

Compare PPPO Tenor - Enter the compare PPPO Tenor in days. This value can be compared with the calculated PPPO Tenor of the account.



Based on the Compare PPPO Tenor and the PPPO tenor (calculated in account), the system will book accounting entries in different GLs.

Netting

Here, you need to indicate the netting preference for posting entries during accrual, liquidation and status change.

If you opt to net, the system will post a single consolidated entry for a GL and Currency combination. If you do not select this option, entries are posted individually for each account.

The GL netting status change option can also be used to indicate installment level status change.

The Netting of Notices across Accounts can be used to indicate that for or all accounts for which the payments falls due on a particular date, the requests for invoice generation should be consolidated.

The loan accounts for which the reminder or demand note should be sent is tracked based on the status of the account. The SDE 'Next Schedule Date' is set up to arrive at how many no. of days in advance the payment notice should be generated. Based on the status of the loan account the corresponding payment invoice format is set up.

The Auto allocate part payment option can be used if you want to do a partial payment through auto allocation. For accounts which are marked for manual allocation of partial amount the payment can be done in bulk using the 'Consumer Lending – Bulk Payments' screen.

For more details on Bulk payments refer section 'Bulk Payments' in the 'Operations' chapter of Retail lending module.

Settlement

The settlement accounts for processing lending transactions have to be specified here. You have to specify the Bridge GL/Account to be used for the settlement of the debit and credit legs of transactions that would be processed at your branch. You can select the accounts from the option lists provided for the same.

Account Auto Generated

You can select this option for automatic generation of account numbers. The system generates the account numbers automatically when you create customer accounts through the 'Account Details' screen. If this option is not checked, you have to capture the account number yourself.

For details on creating an account, refer the 'Account Creation' chapter of this User Manual.

Accounting Mask Required and Account Mask

To maintain uniformity in the account numbers generated/captured across a branch, you can specify a format/mask for account numbers. If you specify that account numbers should conform to a specific format, you have to specify the mask in the 'Account Mask' field.

Example

You may want the account numbers of your branch to be a combination of:

- Branch Code (3 Characters)
- Product (4 Characters)
- Currency (3 Character currency code)
- 5 digit running sequence number

The account mask in this case would be: @(BRN)@(PROD)@(CCY)@(SEQ:5)

An example of an account number conforming to the above mask would be DOC3ROLUSD60021.

If you opt for auto generation of account numbers but do not specify a mask, the generated number will, by default, conform to the following format:

- 3 character Branch Code
- 4 character Product Code
- Date in Julian format (YYDDD)
- 4 digit running sequence number

An example of an account conforming to the above format is 'DOCVSIM040960021' where:

- 'DOC' is the Branch Code
- 'VSIM' is the Product Code
- '04096' is the date equivalent to 5th April 2004 (04 – Year and 096 is the number of days that have elapsed in the year).
- '0021' is the running sequence number.

Also, if you maintain an account mask but do not opt to auto generate the account numbers, then, during account capture you have to conform to the account mask maintained for the branch. If the account is not as per the mask, the following error message is displayed:

Account number entered is not conforming to the account mask.

User Reference Number in Messages

Check this box to indicate that the User Reference Number provided in the account screen has to be used in Tag 20 of MT103 and Tag 21 of MT202. If the box is unchecked, the loan account number will be used instead of the User Ref no.

Auto Gen User ref

Check this box to indicate that system should auto generate user ref no during account creation.

IRR Processing

Check this option to trigger the YACR (Yield Accrual) event for the branch batch.

Schedule Structure

This option is used to indicate if the schedule definitions should honor the end dates or honor the frequencies when the two contradict. The options are:

- Frequency Based
- Non-Frequency Based (the end dates contradict each other)

Example

For a product, you can define payment schedules based on the value date of the loan and/or based on the calendar date. Assume that you have a housing loan product 'HOME' with the following payment schedule details:

- Unit – Monthly
- Frequency – 1
- Schedule Basis – Value Date
- Tenor – 12 months

Case 1: Schedule structure is frequency based

A housing loan is initiated on 4th April 2004. As per the above details, the following schedule dates are defaulted:

- First Due Date: 4th May 2004 (one month after the disbursement date)
- End Date: 4th Mar 2005 (in between schedules being 4th June, 4th July and so on for 11 months)
- The last schedule is always a 'Bullet' schedule.

Note that the schedule dates are driven by the value date of the loan. At the account level, you can, however, change the defaulted schedules. But the end dates should not contradict for the schedules.

For instance, you cannot define schedules with the following details:

First Due Date	No of Schedules	Frequency	End Date
04-MAY-2004	5	Monthly	04-SEPT-2004
01-OCT-2004	5	Monthly	01-FEB-2005
04-APR-2005	1	Bullet	04-APR-2005

Note that for the first and second schedules, the end dates are contradicting (4th Sep and 1st Feb respectively). This is not allowed if the schedule structure is 'Frequency Based'. The following error message is displayed:

Input for component is not as per schedule frequency.

Case 2: Schedule structure is non-frequency based

If the schedule structure is non-frequency based, you can define schedules with contradicting end dates (refer the schedule structure given in **Case 1** above).

First Payment Schedule Gap Treatment

Here, you have to specify the manner in which you would like to treat the period/gap between the loan disbursement date and the first payment. The options are:

- Treat as Payment
- Treat as Moratorium

Example

Assume that you make a disbursement on 1st January and the first payment is due on 1st March. This means that there is a gap of two months between the disbursement and the first payment schedule. You can treat this gap either as a 'Payment' schedule or a 'Moratorium' schedule. If you opt to treat it as a 'Payment' schedule, then, during product creation, you should define the payment schedule with the 'Schedule Flag' being 'Normal'. You should also specify a separate formula for this schedule. This is also done at the product level.

Similarly, if the gap is treated as a 'Moratorium', you should define a schedule with type 'Moratorium' and also define a moratorium formula for the schedule.

Intermediate Schedule Gap Treatment

Here, you have to specify the manner in which the system should handle gaps between two schedules. The available options are:

- Create New Schedule
- Advance current schedule
- Extend previous schedule

Example

Assume that the following are the two payment schedules for a loan:

- 1st May to 25th May
- 5th June to 25th June

Therefore, the gap between the two schedules is 10 i.e. from 26th May to 4th June. To handle this gap, you can instruct the system to do any one of the following:

- Create a new schedule in which case a new schedule is defined for the gap period i.e. 10 days.
- Advance the current schedule, wherein the second schedule will start from 26th May instead of 5th June and go upto 25th June.
- Extend the previous schedule in which case the first schedule goes upto the 4th of June instead of 25th May.

Pre-Payment Penalty Year

Indicate the type of pre-payment penalty year. You can select one of the following options:

- Loan Year
- Financial Year
- Calendar Year

Computation of prepaid amount in a year depends upon the selection of the above option. Based on the option selected, the date range is interpreted by the system for considering the ceiling of prepaid amount in a year. You cannot change this option after the first authorization of the CL branch parameters.

Loan Year ranges between value date of the loan and completion of that particular year. Financial Year ranges between start date of the financial year and the end date of the financial year. Calendar Year ranges between the start date of the calendar year and end date of the calendar year.

Example

Let us assume the following:

Value Date: 05-JAN-2000

Maturity Date: 05-JAN-2020

Loan Year

Year wise penalty free computation is considered like 05-JAN-2000 to 04-JAN-2001, 05-JAN-2001 to 04-JAN-2002, 05-JAN-2002 to 04-JAN-2003 and so on.

Financial Year

If financial year is maintained from April to March, in such a scenario, year wise Penalty free computation will be considered like 01-APR-2000 to 31-MAR-2001, 01-APR-2001 to 31-MAR-2002, 01-APR-2002 to 31-MAR-2003 and so on.

Calendar Year

Year-wise penalty free computation is considered like 05-JAN-2000 to 31-DEC-2000, 01-JAN-2001 to 31-DEC-2001, 01-JAN-2002 to 31-DEC-2002 and so on.

The amount prepaid is stored in a data store year-wise. This data store is value date based. This table is updated at the time of save of payment. Also during deletion and reversal operations this table is updated correctly. The impact of prepaid amount is cancelled from the table during deletion/reversal. The pre-payment penalty amount collected is also stored in the same data store.

At the product level you have to maintain a UDE for handling maximum prepayment amount in a financial year. Let us assume that the UDE is maintained as MAX_PREPAID_PCT. You can maintain the default value of the above UDE from the product. System validates that the extent of pre-paid amount doesn't exceed the percentage maintained at product level at the time of pre-payment.

Example

Assume the following:

Principal: 1000000 USD

Pre-payment penalty

Free percentage: 5% (This will be taken from UDE value: MAX_PREPAID_PCT.)

5 % of 100000 = 50000

Hence, every year up to 50000 USD can be paid as an early repayment without any penalty.

Value date: 01-JUN-2000

Maturity date: 01-JUN-2020

Schedules: 240 monthly

During liquidation, value date of the payment is compared with the start date of the year,

i.e. Value date of payment: 01-OCT-2008

If the borrower is doing pre-payment (prepaid amount = amount paid – (amount due + amount overdue) then system will validate this against allowed prepaid amount.

EMI: 9744.85 USD

Amount paid: 40000 USD

Prepaid amount: $40000 - (9744.85 + 0) = 30255.15$ USD

This 30255.15 USD is validated against 50000 USD and from the data store of prepaid amount between 01-OCT-2008 and 01-JUN-2008. Since this is under allowed prepayment amount no penalty is applied against this pre-payment.

If already some prepayment has happened for the contract in the same year of 20000 USD, system will fetch the same from the data store of prepaid amount and add it to the current prepaid amount i.e. $20000 + 30255.15 = 50255.15$ USD. It is more than the allowed pre paid amount. Hence penalty is applicable and penalty is calculated for the amount 255.15 ($50255.15 - 50000$) USD.

After setting up the branch parameters, you have to save the details. Click Save icon to save the details in the system. However, the parameters take effect only after your supervisor authorizes the same.

3.4 **Defining UDE Rules**

User Defined Elements (UDEs) refer to entities like Interest Rates, Amount/Tier Slabs whose value you can specify and at the same time maintain different values with different effective dates. For instance, you can indicate that interest should be calculated at five percent on a certain date and specify a higher rate effective at a later date.

The UDEs, per say, are defined at the product level and the actual values are provided for a combination of Product, Currency, UDE Rule, and Effective Date in the 'UDE Values' screen. This will be defaulted at the account level and you can override the same with account specific values.

You can define UDE Rules based on which the UDE Values will be picked up at the account level. UDE Rules are conditional expressions built using the SDEs like Loan Amount, Tenor, Rate, Customer Category etc. These rules can be created independently and later attached at the time of maintaining UDE Values. You can associate multiple rules and specify UDE values for each rule. You can maintain the rules in the 'UDE Rules' screen. You can invoke this screen by typing 'CLDUDRMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a window titled "User Defined Element Rule". It has three main input areas: "User Defined Element Rule *" (with an asterisk indicating it's required), "User Defined Element Rule Description", and "Condition". Below the "Condition" area is a "Continuous" button. At the bottom of the window, there is a "Fields" section containing several labels: "Input By", "Date Time", "Authorized By", "Date Time", "Modification Number", "Authorized" (with a checkbox), "Open" (with a checkbox), and an "Exit" button.

The following information should be captured to create a UDE Rule:

Rule Code

You have to specify a unique code consisting of a maximum of four alphanumeric characters, to identify the rule in Oracle FLEXCUBE. This is mandatory to save the record.

Condition

You can build multiple conditions for a rule. To do this, click on 'Condition' in the screen above. The following screen is displayed:

This screenshot shows the "Condition" configuration screen within the "User Defined Element Rule" dialog. It features a "Field" dropdown menu, an "Operator" dropdown menu currently set to "Equal To", and a "Value" input field. Below these are three buttons: "OR", "And", and "Accept". A "Clear" button is located to the left of the "Condition" area. At the bottom right of the dialog, there are "Ok" and "Exit" buttons.

You can create conditions using the following:

- Fields: The SDEs that are factory shipped or maintained in the 'System Data Elements' screen are available in this list.
- Operators: This list includes the mathematical operators:
 - Equal To
 - Greater Than
 - Greater Than or Equal To
 - Less Than
 - Less Than or Equal To
 - Like
 - Not Like
 - Not Equal To
- Logical Operators:
 - And: Use 'And'
 - Or: Use 'OR'
- Value: The value of the SDE selected to define the condition should be entered here. The value may be numeric or alphanumeric, as required for the condition.

After building the condition, click 'Accept' to accept the same. To remove a condition, click 'Clear' in the screen.

After you build the condition(s), click 'Ok' in the screen. You will return to the 'UDE Rules' screen. The condition defined is displayed in this screen.

Example

Assume that you want to charge interest at 12% for home loans (Product Code - HOME) where the loan amount is greater than or equal to 100, 000 and an interest rate of 10% on loans less than 100,000. You can build these conditions in the form of UDE Rules.

Rule ID	Condition
UDE1	AMOUNT_FINANCED >=100000
UDE2	AMOUNT_FINANCED <100000

At the time of assigning values for the UDE 'INTEREST' (assuming that this is the UDE defined for the product in the 'UDE Values' screen(discussed below), you can associate the above rules and for a product, currency, rule and effective date combination, you can specify the value as 12 and 10 respectively. Depending on the condition that the loan satisfies (whether >= 100000 OR less than 100000), the appropriate rate is picked up for interest calculation.

Refer the section titled 'Specifying product Main details' in the 'Defining Product Categories and Products' chapter of this User Manual for details on defining UDEs.

3.5 Providing UDE Values

The actual values for the UDEs defined during product creation (in the 'Main' tab of the 'Consumer Lending Product' screen) is maintained in the 'UDE Values' screen. You can invoke this screen by typing 'CLDUDVMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Head Office Lines' application window. It is divided into several sections:

- Product Detail:** Contains fields for 'Currency Code *', 'Product Code *', and 'Description'.
- Product User Defined Element Rules:** A table with one row for 'User Defined Element Rule Code'.
- Product User Defined Element Dates:** A table with one row for 'User Defined Element Effective Date'.
- Product User Defined Element Values:** A table with columns: 'User Defined Element Id', 'User Defined Element Value', 'User Defined Element Currency', 'Rate Code', and 'Code Usag'.

At the bottom of the window, there is a status bar with the following information:

- Input By: [Field]
- Authorized By: [Field]
- Modification Number: [Field]
- Code Usag: [Field]
- Buttons: Authorized, Open, and an Exit button.

In this screen, you can maintain values for a 'Product Code+ Description + Currency Code + UDE Rules + UDE Dates + UDE Values' combination. The following details have to be captured here.

Product Code

You have to select the product for which the UDE values have to be maintained. The products offered at your bank are available for selection in the option list provided.

Description

After selecting the product the system will automatically generate a description for the product.

Currency Code

For the product selected, specify the relevant currency. This becomes the UDE currency and the values you capture for the UDE is expressed in this currency. The option list will include the currencies maintained in the 'Currency Definition' screen. You can select a relevant code from this list.

For details on 'Currency Definition' screen, refer the 'Currency Maintenance' chapter of the Core Services User Manual.

UDE Rules

Here, you have to associate the relevant UDE Rule(s). The rules maintained in the 'UDE Rules' screen are available in the option list. For each associated rule, you can specify UDE values with different effective dates and depending on the rule that the loan satisfies, the corresponding UDE values become applicable to the loan and same are picked for Interest, Charge, Tax, Commission and Fee computation.



The UDE Rule is mandatory to save the record. The system will automatically link the default rule if you do not associate a rule.

Effective Date

You have to specify the effective dates for the UDE values. This is the date on which the UDE value becomes applicable in the system. The date should be in MM-DD-YYYY format. For a rule, you can maintain UDE values with different effective dates.

UDE ID

The UDEs defined for the selected product is automatically displayed here.

UDE Value

For each UDE displayed for the selected product, enter the UDE value. As mentioned, you can maintain values with different effective dates. Note that the UDE values should fall within the minimum and maximum limit specified for the UDEs linked to the product.

Rate Code

If you want the UDE to have a floating interest rate, select the applicable rate code from the option list. Depending on the rate code selected, the rates are picked up from the 'Floating Rate Code Definition' screen. In this case, the value captured for the UDE becomes the spread against the rate code.

For instance, assume that the rate code is 'MIBOR' and the UDE value is 2 (positive spread). If the rate picked up as per the rate code (taking into consideration the effective date, amount slab and tenor) is 5%, then the actual interest applicable would be 7% (5 + 2). Similarly, if it were a negative spread, the interest would be 3% (5 - 2).

For details on maintaining floating rate codes, refer the section titled 'Maintaining Floating Interest Rates' in this chapter.

UDE Currency

The Currency of the UDE for UDE of Amount type will be captured

Code Usage

This is applicable only if you associate a 'Rate Code' with the UDE. It indicates the frequency at which you want to refresh the floating rates. The options are:

- Automatic: This implies that the rates will be automatically refreshed every time a rate change occurs. Therefore, rates are reapplied to the loans as and when there is a rate change.
- Periodic: This means that the rates will be refreshed based on the Rate Revision Schedule maintained at the component level (in the 'Components' tab of the 'Consumer Lending Product' screen).

It is mandatory to specify the Rate Code usage if the rate code is maintained.

Cascade

You can change the UDE values even after creating accounts under the product. The cascade feature is used to determine the manner in which the change should be handled. If you choose to cascade (select 'YES'), the change becomes applicable to all the existing accounts under the product. However, if you do not cascade the changes, the new UDE values become applicable only to accounts created subsequent to the change.

3.5.1 Maintaining Fixed Amount UDEs in other Currency

To maintain UDEs in a currency different from the loan currency, you have to maintain the values separately for each currency. At the time of loan creation, the values defined for the UDE Currency is picked up and is displayed (in the 'UDE Value' field of the 'Account Details' screen) after conversion into the loan currency equivalent.

Example

Assume that at the product level (Product Code: HOME), you define three UDEs (of type 'Amount'), each in a different currency.

- UDE1 in CLP (loan currency)
- UDE2 in USD
- UDE3 in GBP

At the time of capturing the values for these UDEs in the 'UDE Values' screen, you have to maintain UDE values for the following three combinations:

- HOME + CLP + Default UDE Rule + Effective Date + UDE1
- HOME + USD + Default UDE Rule + Effective Date + UDE2
- HOME + GBP + Default UDE Rule + Effective Date + UDE3

At the account level, the value corresponding to the UDE currency (as specified at the product level) is picked up. For UDE1, the value corresponding to the first combination is picked up, likewise for UDE2 and UDE3 the values corresponding to the 2nd and 3rd combinations resp. are picked up.

The values, however, are displayed after conversion into the loan currency equivalent.

3.6 Applying the UDE Cascade Function

You also have the feature to change the value of a UDE for all the existing accounts under a product. However, the change will be applicable only to the existing accounts. UDE values for new accounts created under the product will be picked as per your specifications in the 'UDE Values' screen.

You can define new UDE values for existing accounts in the 'UDE Cascade' screen. To invoke this screen type 'CLDUDCMT' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.

User Defined Element Id	Old User Defined Element Value	New User Defined Element Value
-------------------------	--------------------------------	--------------------------------

The code of the login branch is displayed here. The following information is captured in this screen:

Reference

After saving the UDE cascade function, Reference will be generated by system itself

Branch code

Input the branch code in which the relevant data is maintained

CCY Code

Select a currency maintained for the product from the option list provided. The UDE value is applied in the currency selected here

Product Code

Select a product for which you have to change the UDE value. The change becomes applicable to all the existing accounts under the product

UDE Effective Date

The date on which the new UDE value is brought into effect is captured here. The date format should be 'MM-DD-YYYY'

After you specify the effective date, the system automatically generates a unique 'Reference' Number

UDE Id

The option list will display the UDEs defined for the selected product. Select the UDE that requires a change in value. When you select the UDE, the 'Old Ude Value' is also displayed in the next field.

New UDE Value

Provide the new value for the selected UDE

3.7 Maintaining Adhoc Charge Types

In order to maintain the various ad hoc charge types invoke the 'Adhoc Charges Type' screen. This screen allows you to capture and store ad hoc charge types such as legal fees, notary fees, and administration fees etc. which are applicable at the collection stage of the loan. You can invoke this screen by typing 'CLDADCMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a window titled "Ad-hoc Charge Type". Inside the window, there is a section labeled "Charge" with two input fields: "Charge Type*" and "Charge Description". The "Charge Type*" field is a small text box, and the "Charge Description" field is a larger text box with a help icon. At the bottom of the window, there are fields for "Input By Date Time", "Authorized By Date Time", and "Modification Number". There are also two checkboxes, "Authorized" and "Open", and an "Exit" button.

Charge Type

Specify the charge type that can be levied on a loan in case of any delayed repayments. The valid values are of the type Admin Fee, Legal Fee, etc

Charge Desc

Specify a detailed description of the Charge Type.

3.8 Maintaining Adhoc Charges

You can maintain adhoc charges in the system using the 'Adhoc Charges' screen. You can invoke this screen by typing 'CLDADCHG' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Adhoc Charges' application window. The title bar reads 'Adhoc Charges'. The main area contains a form with the following fields and their respective icons:

- Branch: [Text Field] [List Icon]
- Account Number: [Text Field] [List Icon]
- Internal Reference *: [Text Field]
- Component Name: [Text Field] [List Icon]
- Credit Account: [Text Field] [List Icon]
- Charge Type: [Text Field] [List Icon]
- Charge Incurred Date: [Text Field] [Calendar Icon]
- Reason: [Text Field] [Help Icon]
- Currency: [Text Field] [List Icon]
- Amount: [Text Field]
- Exchange Rate: [Text Field]
- Component Currency Equivalent: [Text Field]
- Original Exchange Rate: [Text Field]

At the bottom of the window, there are the following controls:

- Input By: [Text Field] Date Time
- Authorized By: [Text Field] Date Time
- Contract Status: [Text Field] Authorized
- Exit: [Button]

You need to enter the following details in the screen above:

Branch

Select the branch code of the bank that is servicing the loan.

Account Number

Select the account number on which the charges are to be levied from the option list.

Internal Ref No

A unique identifier for the specific ad hoc charge is displayed here. This is system generated.

Component Name

Select the component that is to be used to track the ad hoc charge from the option list.

Credit Account

Specify the account (GL) to which the ad hoc charges collected are to be credited from the option list. This in most cases is the account of the Collection Agency.

Charge Type

Select the charge type to be levied on a loan from the option list. The values in the option list are the charge types maintained using the Adhoc Charge Type maintenance.

Charge Incurred date

Specify the date on which the charge is to be levied on the customer. This cannot be a future date. Also, it should pass the accounting for ad hoc charges with a back date.

Reason

Specify the reason for which the charge is being levied on the account.

Currency

Select the currency for the adhoc charge.

Amount

Specify the amount of the ad hoc charge to be levied on the customer account.

Original Exchange Rate

The base or actual exchange rate between the adhoc charge component currency and account currency gets displayed here.

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual.

You can reverse the adhoc charges entered in the system. The Reversal button is enabled for all authorized adhoc charges entered in the system. The contract status for the adhoc charge will have the value as 'PAID' or 'REVERSED'. Post reversal of the adhoc charge, the contract status is displayed as 'REVERSED'.

At the time of Authorizing of reversal of Adhoc Charges, re-computation of IRR is done by the system if IRR is applicable for the product. The unauthorized reversals can be deleted and authorized. The delete and Authorize buttons will be enabled for unauthorized reversals.

The event code used for reversal of adhoc charge is RADC (Reversal of Adhoc Charge).

Adhoc charge reversal is not allowed if any event happens after the adhoc charge event. In such case, the event needs to be reversed first and then only adhoc charge can be reversed. The possible events are ALIQ/MLIQ, VAMI, DSBP, REVN.

3.9 Maintaining Holiday Periods

You can identify certain periods in the calendar as holiday periods when customers would have other expenses and would like to avail a repayment holiday. This would typically be during Christmas/New Year or for anniversary celebrations. Although, Interest computation continues for this period, repayments are not scheduled.

You can define repayment holiday periods in the 'Holiday Period' screen.

You can invoke this screen by typing 'CLDHOLMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a window titled "Holiday Period Maintenance". Inside the window, there is a section labeled "Holiday Period" containing several input fields and checkboxes. The fields are: "Period Code *" (a text box), "From Date" (a date picker), and "To Date" (a date picker). Below these are two checkboxes: "Anniversary Period" and "Principal Repayment Holiday". At the bottom of the window, there are four fields: "Input By Date Time", "Authorized By Date Time", "Modification Number", and two checkboxes labeled "Authorized" and "Open". An "Exit" button is located in the bottom right corner of the window.

The following information is captured to define a holiday period:

Period Code

You have to capture a unique code to identify the period in the system. The code can comprise of 30 alphanumeric characters.

Date From and Date To

For the period code specified, capture the holiday period i.e. the start date and end date for the holidays. The date format should be 'MM-DD-YYYY'. It is mandatory to specify the date range to save the holiday period.

Anniversary Period

This option is used to define an anniversary period. If you check this option, the holidays will be repeated every year for the given range of dates. By default, the system checks this option.

Principal Repayment Holiday

If you check this option, the system will apply the holiday period to the principal component alone. The simple interest formula defined at the product level will not be affected. By default, this option is unchecked. However, you may modify it.

While defining a loan contract, you may apply the holiday period codes maintained using this screen.

Example

Suppose that a product has dual formula for the MAIN_INT component as shown:

Formula Name	Formula Type
FRM_MAIN_INT	Amortized
FRM_MAIN_INT_1	Non-amortized

A holiday period 'PRINHOL' is maintained as shown below:

Field	Value
Period Code	PRINHOL
From Date	1-Oct-00
To Date	1-Nov-00
Anniversary Period	Y
Principal Repayment Holiday	Y

Contract details are shown in the following table:

Value Date	01-Jan-2000
Maturity Date	31-Dec-2000

Once 'PRINHOL' has been linked as holiday period linkage, the system will generate Comp SCH as shown in the following table:

Formula	First Due Date	No. of Schedules	Frequency	Schedule Type
FRM_MAIN_INT	01-Feb-2000	8	1	Monthly
FRM_MAIN_INT_1	01-Oct-2000	1	1	Monthly
FRM_MAIN_INT	01-Nov-2000	8	1	Monthly

Formula	First Due Date	No. of Schedules	Frequency	Schedule Type
FRM_MAIN_INT	01-Dec-2000	8	1	Bullet

3.10 Maintaining Check Lists

You can maintain check list for different events using the 'Check List Maintenance' screen. The check lists that you maintain here will be validated during the execution of that event while processing the loan. For E.g.- A checklist of documents required for loan processing can be maintained like ID proof, Bank statements, Income etc.

You can invoke this screen by typing 'CLDCHKMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The following details have to be captured here:

Event Code

Select the event code for which check list items have to be maintained from the drop down list.

Check List Item

Specify the check list item name that you want to maintain for the selected event. The check list items that you maintain here will be validated by the system during that event, while processing the loan.

3.11 Maintaining System Data Elements

The balance in the account for which the interest has to be calculated depends on the activities that take place in the customer account over a period of time. This information is constantly updated in the system and is readily available for computation of interest or charges. Data elements of this sort are called 'System Data Elements' (SDEs) because the values for the SDEs are necessarily picked up by the system while applying interest. You cannot input the values for these elements.

You can capture the various SDEs in the 'System Data Elements' screen. You can invoke this screen by typing 'CLDSDEMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Language Code *	Language Text	Language Description

You have to maintain the following to define a SDE:

Element ID

Capture an id to uniquely identify the SDE in the system. You can devise an Id comprising a maximum of 30 alphanumeric characters.

Function Name

Here, you have to associate the Oracle function which would calculate the SDE value internally. The values available in the option list are factory shipped. The system picks up the value computed by the function for use in interest calculation.

Data Type

This indicates the nature of the data the SDE represents. The options are:

- Character

- Number
- Date

Language Code and Language Text

Select a language for the SDE being defined. You can select a code from the option list provided. The system automatically displays the corresponding text in the language selected for the SDE.

Language Description

Here, you have to provide the description of the SDE being defined, in the language selected. The description should not exceed 30 alphanumeric characters.

System Data elements can be balances like PRINCIPAL_EXPECTED, PRINCIPAL_OVERDUE etc. Some Oracle FLEXCUBE entities required for formula generation/rule set up will be factory shipped.

The list of standard SDEs available for use are given below:

Name	Description
TENOR	Duration for which the loan is applied for in days
CUSTOMER_CATEGORY	Category of the customer of the loan which is maintained at the customer information file level
BRANCH_CODE	Code of the branch where the loan account is opened
ACCOUNT_CCY	Loan account's currency
LOAN_STATUS	Status of the loan account
CUSTOMER_ID	Primary customer's id for a loan account
NO_OF_RPMNT_SCHS	Number of repayment schedules excluding the moratorium ones
INCREASED_PRINCIPAL	Increase in the principal
DAYS	Days in a month
YEAR	Days in a year
RISK_CLASSIFICATION	Risk classification at line level which can be used at status change
PREPAID_AMOUNT	Amount that has been prepaid
MORA_OUTSTANDING	Total moratorium outstanding amount
TOTAL_MORA_AMOUNT	Total moratorium amount

Name	Description
INDEX_CCY	Index currency
NEXT_WORKDAY	Next working day of the branch
LAST_WORK_DAY	Last working day of the branch
TODAY	Today's branch date
TOTAL_PRINCIPAL	Amount for which the loan is applied for
AMOUNT_FINANCED	Amount for which the loan is applied for
PRINCIPAL	Amount disbursed
INT_SUSPENSION_DATE	Interest suspension date based on risk classification. If classification is C, then the suspension date is one year from today's date. If classification is D, then the suspension is immediate.
COMPOUND_VALUE	Amount compounded within a schedule and is used internally
RESIDUAL_DAYS	Tenor of the loan
WORST_SCH	Worst Installment Status
APPLICATION_DATE	Application date in loan origination
APPLICATION_SCORE	Application score in loan origination
APPLICATION_TENOR	Application tenor in loan origination
APPLICATION_PRINCIPAL	Application principal amount in loan origination
_OVR_DAYS	<Component> overdue days
_EXPECTED	<Component> expected amount
_OUTSTAND	<Component> outstanding amount
_CCY	<Component> currency
_OVERDUE	<Component> overdue amount
_INS_OVR_DAYS	<Component> number of days between the schedule due date and the maturity date
_FN_NO_REPAY_SCH	<Component> number of schedules for a component if periodic

Name	Description
_NET_PRINCIPAL	<Component> amount financed
_SCHODUE	<Component> schedule amount due less amount settled
EMI_AMOUNT	The EMI amount for amortized loan contracts, in the current schedule for rental cash flow type of Loans
TOTAL_SCHODUE	Amount overdue for the schedule.
NUM-INSTLMNT-OVRDUE	Number of overdue installments
ADVISED_LINE	Indicates the status of the facility to which the commitment is linked. If the facility is advised, the SDE returns a 'Y'; if not it returns a 'N'
COMMITMENT_CUR_UTIL	Holds the current utilization amount for the commitment
CUSTOMER_CREDIT_RATING	Holds the Credit Rating information of Customer
PPPO_TENOR	Indicates the value of the PPPO Tenor field of the Account
COMPARE_PPPO_TENOR	Indicates the value of the PPPO Tenor based on Branch level or Account level value.
CUSTOMER_AGE	Age of the customer
CUSTOMER_GENDER	Gender of the customer
RESD_INSTALLMENT_PMT	Indicates the residual installment payment. When MLIQ event is processed for an auto/manual liquidation loan, the value of this SDE will be 'I' for intermediate installments and 'B' for final installment. In all other cases, value of this SDE will be 'N'.
RESD_INSTALLMENT	Indicates the details of residual amount paid
PENAL_COMPOUND	Supports base re-computation method as well as weak temporality functionality.
REFUND_AMT	To consider the final maturity date and payment date for refund amount calculations
FINAL_MATURITY_DATE	To calculate National Collateral Fund and Life Insurance component.

Name	Description
COLLATERAL_STATUS	To obtain the collateral status and to set-up status movement rule in commitment product.
COLLATERAL_PFOLO	To obtain collateral portfolio information and to set-up status movement rule in commitment product.
COLLATERAL_TYPE	To set up accounting rules in commitment product.
COLLTERAL_CATEGORY	To set up accounting rules in commitment product.
LOAN_COLLATERAL_TYPE	To define different GL for Loan account Accounting Role.
REGULAR_SCH	Indicates the regular schedule
DAYS_IN_SCH	Indicates the number of days for the irregular schedules
FREQ_DAYS	Indicates the number of days based on the frequency configured for the component
PRINCIPAL_EXP_OVD	Indicates the Principal Expected and the Overdue as on calculation date
HAD_DISC_LIFINS	Indicates the discounted life insurance
IMMEDIATE_SCHEDULE_DUE	Indicates the immediate schedule due
UNEMP_INSR_PRM	Indicates the unemployment insurance premium
MONTHS_IN_SCH_RD	Indicates the number of months in the schedule
CAPT_MONTHS	Indicates the number of months resolved from the 'Unemployment Insurance Recalculation Maintenance' screen based on the number of capitalization days.

Name	Description
PRINCIPAL_OS_MONTHEND	Indicates the principal Outstanding as on the month end
NCF_COMMISSION	Indicates the commission rate based on NCF Product
MONTHS_IN_SCH_RU	Indicates the number of months in the schedule, rounding up to the next whole number.
COMM_REQ_FREQ	Indicates the national collateral commission recovery frequency
PREGP_PRINCIPAL	Indicates the net principal of the loan.
IVA_FACTOR	Indicates the tax percentage
DAYS_EXT_SCH	Indicates the number of days as per days in month parameter for the component in unidirecto product, based on final maturity date
LOAN_CLASS	Fetches the product class associated with the product.
LOAN_COLLATERAL_TYPE	System returns value as 1 if loan is backed up by real collateral else 2.
COMP_ACCRUE_STATUS	Used to configure RTH for the MLIQ/ALIQ accounting role.
REVERSAL_REASON	Indicates the reason for reversal
NEXT_INST	This SDE will return a value 'Y' when payment initiated through batch process to perform payment from liability GL.
REFUND_AMT	Indicates the refund amount

The 'Customer Credit Rating' field at the Customer level will be used as a SDE CUSTOMER_CREDIT_RATING for defining status change rules. This will also be available for provision rule definition at the CL product level.

3.12 Maintaining Floating Interest Rates

You can apply interest either as 'Fixed' rate or as 'Floating' rate. A Floating Rate corresponds to the market rates for the day. These rates are maintained and updated daily (or whenever they change,) in the 'Floating Rate Maintenance' screen.

You can invoke this screen by typing 'CFDFLTRT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Floating Rate Code Definition' window. It has a title bar with a diamond icon and the text 'Floating Rate Code Definition'. The main area is divided into several sections:

- Rate Code:** Contains three input fields: 'Branch Code *', 'Rate Code *', and 'Description'.
- Currency:** A table with one column 'Currency Code *'. It has a search icon and a scroll bar.
- Effective Date and Amount Slab:** A table with three columns: 'Amount Slab *', 'Effective Date *', and 'Borrow Lend In'. The 'Borrow Lend In' column has a dropdown menu currently showing 'Borrow'. It has a search icon and a scroll bar.
- Tenor and Interest Rate Details:** A table with two columns: 'Tenor *' and 'Interest Rate'. It has a search icon and a scroll bar.
- Fields:** A footer section with four input fields: 'Input By Date Time', 'Authorized By Date Time', 'Modification Number', and 'Authorized Open'. There is an 'Exit' button on the right.

The floating interest rates are defined through this screen. A Rate Code identifies a set of rates defined for a combination of Currency, Amount Slab (optional) and Effective Date. Also, for each such combination, you can maintain rates that can differ by each tenor.

The following details have to be captured here:

Rate Code and Description

You can maintain new rate codes and also provide values for existing ones (like MIBOR, LIBOR etc). For a new code, you need to capture a unique id. The id can include a maximum 10 alphanumeric characters.

Currency

You have to associate each Rate Code with a currency. You can define rates for the same Rate Code in different currencies. Select a currency from the option list provided.

Effective Date

Each rate that you define for a Rate Code and Currency combination should have an Effective Date associated with it. This is the date on which the rate comes into effect. Once a rate comes into effect, it will be applicable till a rate with another Effective Date is given for the same Rate Code and Currency combination.

Example

Rate Code - TERMDEP45

Currency - U S Dollar

Effective Date	Interest Rate
01 January 2005	12.5%
14 January 2005	12.0%
31 January 2005	13.0%

These rates will be applicable as follows:

Period	Interest Rate
1 st January to 13 January 2005	12.5%
14 th January to 30 January 2005	12.0%
31 st January to one day before the next date	13.0%



The rates will be applied to a contract depending on whether it has been defined with 'Automatic' Rate Code Usage or 'Periodic' Rate Code Usage. You can specify this in the 'UDE Values' screen.

Amount Slab

For a specific Rate Code and Currency combination, you can define an amount slab. However, this is not mandatory. A rate that has been defined for an Effective Date - Amount Slab combination will be applicable to an amount less than or equal to the specified amount.

Example

Let us extend the example we discussed for Rates and Effective Dates to include amount limits.

Amount (USD)	Effective Date	Interest Rate
10,000	01 January '05	12.5%

Amount (USD)	Effective Date	Interest Rate
50,000	01 January '05	13.0%
999.9 million	01 January '05	14.0%

If the rates have to be applied on 1st Jan '05, they will be picked up as follows:

- For a loan with an amount less than or equal to USD10, 000 the rate will be 12.5%.
- For a loan with an amount greater than USD 10,000 and less than or equal to 50,000 the rate will be 13%.
- For a loan with an amount greater than USD 50,000 and less than or equal to USD 999.9 million, the rate applied will be 14%.



A huge amount (999.9 million) has been given as the last amount limit. This denotes that after 50,000 there is no upper limit in the slab

Borrow/Lend Indicator

For every Amount Slab - Effective Date combination, you should define the rate to be applied as a borrow rate, a lend rate or a mid rate. Borrow rates are applied for loans taken by the bank and lend rates applied on loans disbursed.

Tenor and Interest Rates

The rates that will be applied for a given combination of Amount Slab – Effective date – Lend/Borrow Indicator can be tenor based. In this screen, you can also define interest rates for different tenors.

For instance, for an amount slab you can maintain rates for the Rate Code LIBOR for tenors 1 - 30 Days, 30 – 90 Days and so on. If you do not maintain tenor wise interest rates, you have to maintain the tenor as '0' and then specify the rate. This is mandatory to save the details.

3.13 Maintaining User Defined Policies

User defined Policies are special validations and operations to be performed before or after a life cycle event of a loan. You can maintain policies in the 'User Policy' screen.

You can invoke this screen by typing 'CLDPOLMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a software window titled "Policy Maintenance". At the top, there are three input fields: "Policy code *" (with an asterisk indicating it's required), "Policy Description", and "Policy category". The "Policy category" field has two radio button options: "Servicing" (which is selected) and "Originations". Below these is a section titled "Policy details" which contains a table. The table has four columns: "Expression Line", "Policy Expression", "Condition", and "Action Id". The "Policy Expression" cell contains a text input field with a speech bubble icon. The "Condition" cell contains a button labeled "Condition". The "Action Id" cell contains a text input field with a list icon. At the bottom of the window is a "Fields" section with several fields: "Input By Date Time", "Authorized By Date Time", "Modification Number", "Authorized" (checkbox), "Open" (checkbox), and an "Exit" button.

Specify the following details to maintain a policy:

Policy Code and Policy Description

A policy code identifies a policy uniquely in the system. The code is used to link the policy to a product/account. You can devise a code consisting of a maximum of 20-alphanumeric characters.

Also, for the code captured, provide a brief description in not more than 35 alphanumeric characters. The description is used for information purposes only.

Policy Category

Select the category to which the policy should belong. This implies if the Policy is to be linked to an Application (Origination and API or Product setup). The two options are:

- Origination
- Servicing

Specifying Policy Details

Expression Line

You can maintain multiple expressions for a policy and each expression is identified by a unique serial number. The serial number can consist of a maximum 6 digits.

Policy Expression

Here, you have to specify the expression for the policy which when satisfied by the loan, will trigger the corresponding action. You can maintain multiple expressions and action codes under a policy. Depending on the expression that is evaluated successfully, appropriate 'Action Id' is triggered. However, an expression is not mandatory to define a policy.

Action Id

You have to select the action that is to be triggered when the corresponding expression becomes valid for the loan. This refers to the wrapper name that is mapped to the actual PL/SQL code that executes the policy. Select the action id from the option list provided. The values available in the list are factory shipped.

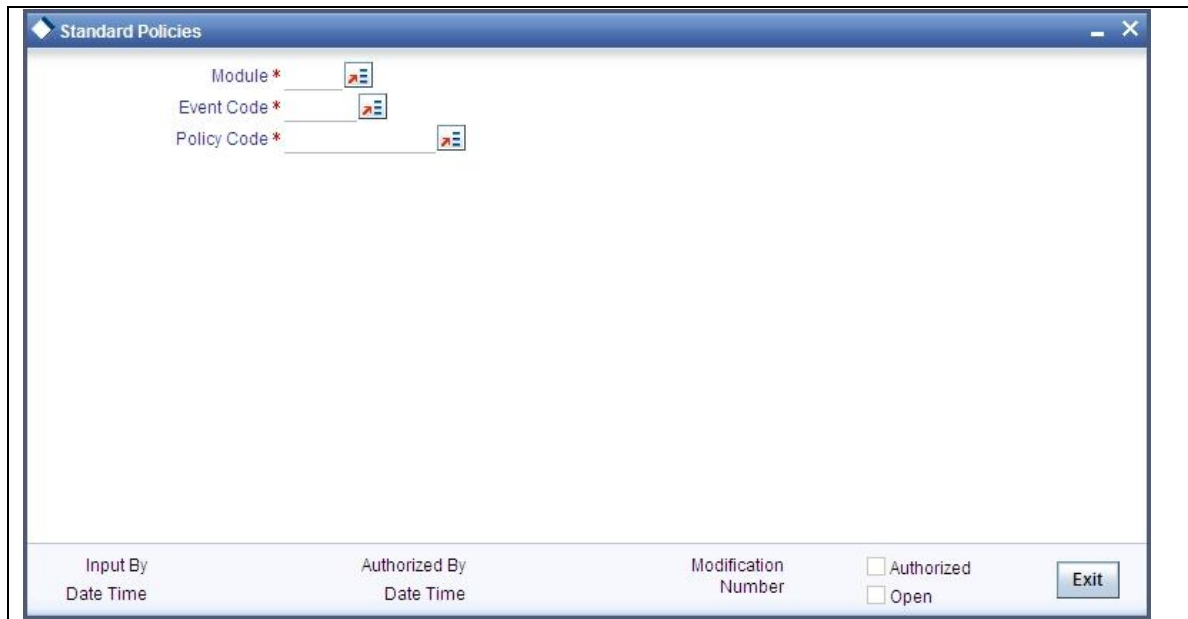
The policies defined through 'User Policy' screen become available for association at the 'Product Category' level.

For more details, refer the section titled 'Maintaining Product Categories' in the 'Defining Product Categories and Products' chapter of this User Manual.

3.14 Maintaining Standard Policies

You can also categorize the policies defined through the 'User Policy' screen as 'Standard Policies' in the 'Policy Maintenance' screen.

You can invoke this screen by typing 'CLDSTDPL' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



The screenshot shows a window titled "Standard Policies" with a white background and a blue title bar. Inside the window, there are three input fields, each with a red asterisk and a dropdown arrow icon: "Module *", "Event Code *", and "Policy Code *". Below these fields, there are labels for "Input By Date Time", "Authorized By Date Time", and "Modification Number". To the right of these labels are two checkboxes: "Authorized" and "Open". An "Exit" button is located in the bottom right corner.

To maintain a standard policy, you have to specify the following in the screen:

Module

A standard policy is defined for a Module and Event combination. You have to select the module for which the policy should be applied. The option list will display the list of valid Oracle FLEXCUBE modules.

Event Code

The events defined for the selected Module are displayed in the option list provided. You may select an event from this list.

Policy Code

The policies maintained in the 'User Policy' screen are available in the option list provided. Select the appropriate policy for the selected Module and Event combination.

3.15 Maintaining Bulk Payment Preferences

If indicated at the Loans/Commitments level that bulk payments need to be maintained for an account, then preferences for the bulk payments are maintained at the Bulk Payment Preferences screen. Under a Loan/Commitment a customer can make multiple disbursements under that Loan/Commitment account. These multiple payments are treated as separate transactions with separate products and interest components. On payment of the Principal amount of any of the loans the Loan/Commitment is restored to the customer. As these multiple disbursements are treated as individual transactions, hence the Bulk Payment option provides the customer to make a single payment across for multiple payments. This payment can be configured to be split automatically among the different disbursements made based on a defined rule.

The Bulk Payment Preferences screen can be used for maintaining the priority for auto as well as manual liquidation of bulk payments. Invoke this screen by typing 'CLDBPPRF' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Branch Code * Allow Partial Allocation

Bulk Entity *

Liability Id *

Bulk Entity Reference *

Prioritization Option

Earliest Due First Contract Level

Highest Due First Scheduled Level

Component Prioritization N/A

Component Prioritization Option

Product Code	Component	Priority
--------------	-----------	----------

Maker Date Time: Mod No

Checker Date Time: Record Status

Authorization Status

The following details need to be specified for maintaining the bulk payment preferences for multiple disbursements made under a single line/commitment:

Branch

The branch where the bulk payments preferences are maintained for a CL account is displayed here. The maintenance is done at this branch. The preferences maintained for each loan/commitment are only for this branch.

Bulk Entity

Select the bulk entity applicable for these payments from the option list provided. You can select the following values

- Limit Line – This option displays all the valid limit lines in the current branch which have been attached to any of the loan accounts; when the bulk payment option has been selected for the same.
- Commitment – The valid commitment reference numbers attached to any of the loan accounts in the current branch are displayed on selecting this option; when the bulk payment option has been selected for the same.
- All

Liability ID

Select the liability identification number based on the bulk entity type selected, from the option list. For bulk entity type limit line the liability IDs for which limit line is linked to CL account are listed. For Commitment bulk entity type the commitment IDs linked to the CL account are listed. You can select 'All' option if you want to display both limit line and commitment in the list of values.

Bulk Entity Reference

Specify the bulk entity reference number associated with the relevant loan account. You can also select the bulk entity reference from the adjoining option list. The list displays the reference number based on the bulk entity type and liability ID. The bulk entity reference lists values as 'ALL' indicating that the rule is common for all references attached to a branch and not a specific reference maintained for that particular branch.

Allow Partial Liquidation

Check this box to indicate that the partial payment is allowed for the individual loan amounts. If the payment amount is sufficient to liquidate only partially as against the total due amount then if the partial liquidation option is allowed then a partial amount is allocated against the total due amount.

Partial allocation is allowed for dues for all priority options. For all prioritization options, if the total payment amount provided for bulk payment only partially satisfies liquidation, then partial amount is allocated against the amount due, only if the Partial allocation box is checked otherwise the schedule is skipped from liquidation.

3.15.1.1 Selecting Prioritization options

Select the appropriate prioritization option. You can select the following options:

- Earliest Due First
- Highest Due First
- Component Prioritization

On selecting Component Prioritization the 'Component Prioritization' details are enabled for entry. However on selecting the same Account level and Schedule Level are disabled for entry.

The following Priority combinations can be selected:

- Earliest Due first /Account level/partial allocation allowed.
- Earliest Due first /Account level/partial allocation not allowed.
- Earliest Due first /Schedule level/partial allocation allowed.
- Earliest Due first /Schedule level/partial allocation not allowed.
- Highest Due first / Account level/partial allocation allowed.
- Highest Due first /Account level/partial allocation not allowed.
- Component Prioritization/ partial allocation allowed.
- Component Prioritization/ partial allocation not allowed.

Earliest due first date

When you make this selection you can only specify the account level option. When the available amount is allocated while indicating account level or schedule level, amongst the due amounts belonging to the eligible accounts, then the account priority is applied in case of multiple accounts. The schedules with earliest due date are considered first and liquidation amount is allocated based on the due date at schedules level. In case of conflict arisen, the earliest value date and highest due is considered for resolution. If the value dates and highest due are the same then the resolution is carried out on the basis of the account number, that is, the earlier account number is considered first.

Highest Due First

When you make this selection you can also specify the account level. On allocating the bulk amount while indicating account level, the highest due amount across the accounts is determined and all components due in this account are marked for payment followed by the next highest due account available among the rest. In a conflict the earliest valued date is considered. If the value dates are same then the accounts are prioritized based on the account numbers. Schedule level is not applicable for this option.

Component Prioritization

Check this box to define the order for liquidation for components across products. When you make this selection you must also select the option N/A. The liquidation order defined here overrides the product liquidation order. If Component prioritization option is chosen then the fields under component prioritization options frame will be enabled.


According to the priority defined allocation of the bulk amount is done for all accounts. Similar to the cases described above the value date and highest due is considered for allocation, in cases of conflict due to value date and highest due the resolution is brought about by account number.

Component Prioritization Options

The component details related to prioritization are enabled for entry once the 'Component Prioritization' is enabled

Product Code

Specify the component product code for which liquidation prioritization details are maintained.

 Products not listed in prioritization will be taken as lowest priority. These are allocated using the liquidation order defined in the product.

Component

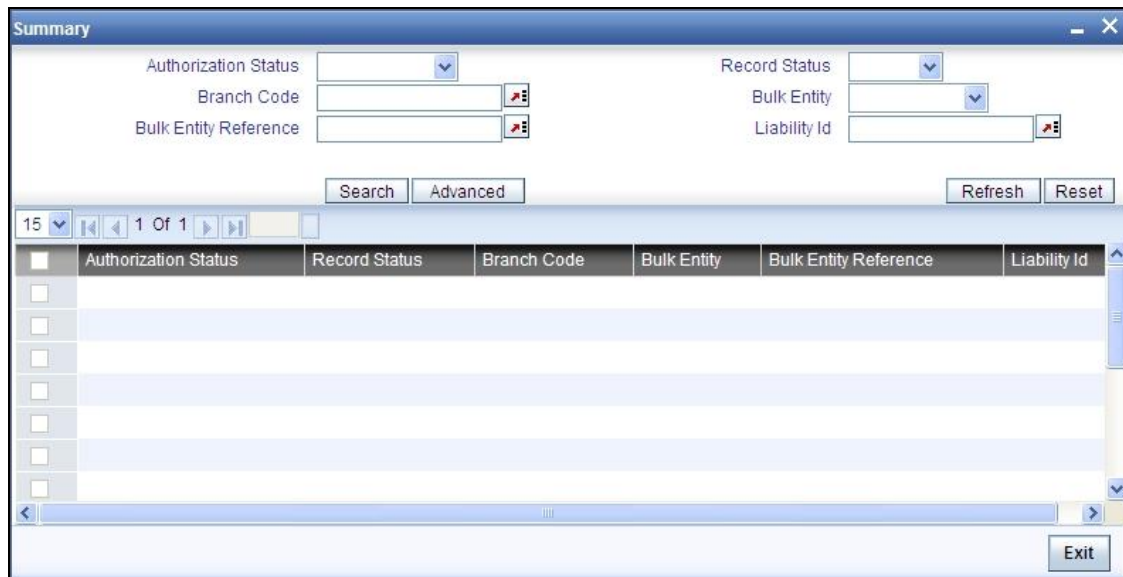
Specify the component for which prioritization is maintained

Priority

Specify the priority for the component. The priority is a unique numeric character input by a user. The lower the number value the higher is the priority applied to the component.

3.15.2 Viewing Summary Records

You can view and amend details of a particular record by using the 'Summary' screen. You can invoke this screen by typing 'CLSBPPRF' the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



The screenshot shows a software window titled "Summary" with a search interface. At the top, there are several input fields: "Authorization Status" (a dropdown menu), "Branch Code" (a text box with a search icon), "Bulk Entity Reference" (a text box with a search icon), "Record Status" (a dropdown menu), "Bulk Entity" (a dropdown menu), and "Liability Id" (a text box with a search icon). Below these fields are "Search" and "Advanced" buttons, and "Refresh" and "Reset" buttons. A table below the search area shows a list of records with columns: "Authorization Status", "Record Status", "Branch Code", "Bulk Entity", "Bulk Entity Reference", and "Liability Id". The table has a scroll bar on the right and a "15" dropdown at the top left. At the bottom right of the window is an "Exit" button.

To view a particular record double click on the desired record displayed in the list of records. The required record is enabled for action.

3.16 Maintaining Special Condition Codes

You can maintain the special condition codes and events that are restricted due to the special condition using the 'Special Condition Maintenance' screen. You can invoke this screen by typing 'CLDSCCOD' the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Special Condition Maintenance' window. At the top, there is a title bar with a diamond icon and the text 'Special Condition Maintenance'. Below the title bar, there are two input fields: 'Condition Code *' and 'Description'. Below these fields is a checkbox labeled 'Judicial'. A section titled 'List of Restricted Events' contains a table with columns 'Event Code' and 'Description'. The table has one row with a checkmark in the first column and a red 'X' icon in the second column. Below the table are two sets of labels: 'Maker' and 'Checker' on the left, and 'Date Time:' on the right. A 'Cancel' button is located in the bottom right corner.

Specify the following details:

Condition Code

Specify the special condition code.

Description

Specify the description of the special condition code.

Judicial

Check this box to indicate that the special condition should be judicial type.

List of Restricted Events

Event Code

Specify the events which are restricted to the special condition from the adjoining option list. The list displays all valid events maintained in the system. You can choose the appropriate one.

Description

The system displays the description of the event.

3.17 Maintaining National Collateral Fund Commission Details

You can maintain the national collateral fund commission details using the 'National Collateral Fund Commission Maintenance' screen. This is used for resolving the NCF Commission. You can invoke this screen by typing 'CLDNCFM' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'National Collateral Fund Commission Maintenance' window. At the top, there are input fields for 'NCF Product Code' and 'Product Description'. To the right, there is a dropdown for 'Commission Recovery Frequency'. Below these are three data grids: 'Rate Details' (with 'Effective Date' column), 'Coverage Percentage Details' (with 'Coverage Percentage From' and 'Coverage Percentage To' columns), and 'Tenor Details' (with 'Tenor From', 'Tenor To', and 'Comm' columns). A 'Tenor' dropdown is located above the 'Tenor Details' grid. The bottom status bar includes fields for 'Maker', 'Checker', 'Mod No', 'Date Time', and 'Record Status', along with a 'Cancel' button.

Specify the following details:

NCF Product Code

Specify the NCF product code.

Product Description

Specify the description for the NCF product code.

Commission Recovery Frequency

Select the commission recovery frequency from the adjoining drop-down list. The list displays the following values:

- Annually Discounted
- Discounted for tenor
- Discounted for tenor-financed
- Short Term

Rate Details

Specify the following rate details:

Effective Date

Select the effective date from the adjoining calendar.

Coverage Percentage Details

Specify the following coverage percentage details:

Coverage Percentage From

Specify the starting range of coverage percentage.

Coverage Percentage To

Specify the ending range of coverage percentage.

Tenor Details

Specify the following tenor details:

Tenor

Select the unit of tenor from the adjoining drop-down list. The list displays the following values:

- Days
- Months
- Years

Tenor From

Specify the starting range of tenor.

Tenor To

Specify the ending range of tenor.

Commission Rate

Specify the commission rate against the respective tenor range.

3.18 Viewing the National Collateral Fund Commission Details

You can view the NCF commission summary details using the 'National Collateral Fund Commission Summary' screen. You can invoke this screen by typing 'CLSNCFM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Authorization Status	Record Status	NCF Product Code	Commission Recovery Frequency
----------------------	---------------	------------------	-------------------------------

You can query based on any or all of the following criteria:

- Authorization Status
- Record Status
- NCF Product Code
- Commission Recovery Frequency

Click the 'Search' button. The system identifies all records matching the specified search criteria and displays the following details for each one of them:

- Authorization Status
- Record Status
- NCF Product Code
- Commission Recovery Frequency

Double click the record to invoke the detailed screen.

3.19 **Maintaining the Unemployment Insurance Recalculation Details**

You can maintain the unemployment insurance recalculation details using the 'Unemployment Insurance Recalculation Maintenance' screen. This is used for resolving capitalization months for special libranza loans. You can invoke this screen by typing 'CLDUIERM' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

<input checked="" type="checkbox"/>	Capitalization Days From	Capitalization Days To	Number of Months
<input checked="" type="checkbox"/>			

Specify the following details:

Bank Code

The system displays the bank code.

Capitalization Days From

Specify the starting range of capitalization days.

Click the 'Search' button. The system identifies all records matching the specified search criteria and displays the following details for each one of them:

- Authorization Status
- Record Status
- Bank Code

Double click the record to invoke the detailed screen.

3.21 **Maintaining Economic Destination Details**

You can maintain the economic destination codes using the 'Economic Destination' screen. You can invoke this screen by typing 'CLDECDST' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a window titled "ECONOMIC DESTINATION". At the top, there are three input fields: "Economic Destination *", "Product Class *", and "Description". The "Product Class *" field has a dropdown arrow. Below the input fields, there are several fields for user and system information: "Maker", "Checker", "Date Time:", "Mod No", "Record Status", and "Authorization Status". In the bottom right corner, there are "Ok" and "Cancel" buttons.

Specify the following details:

Economic Destination

Specify the economic destination code.

Description

Specify the description for the economic destination.

Product Class

Specify the product class associated to the economic destination. The adjoining option list displays all the product classes maintained in the system. You can choose the appropriate one.

3.22 Viewing Economic Destination Summary Details

You can query and view the economic destination summary details using the 'Economic Destination Summary' screen. You can invoke this screen by typing 'CLSECDST' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot displays the 'Economic Destination Summary' application window. The window title is 'Economic Destination Summary'. The interface includes search filters for 'Authorization Status', 'Record Status', 'Economic Destination', and 'Product Class'. Below the filters are buttons for 'Search', 'Advanced Search', 'Refresh', and 'Reset'. A table below the search area shows columns for 'Authorization Status', 'Record Status', 'Economic Destination', and 'Product Class'. The table is currently empty, showing only the header row. At the bottom right of the window is an 'Exit' button.

You can query based on any or all of the following criteria:

- Authorization Status
- Record Status
- Economic Destination
- Product Class

Click the 'Search' button. The system identifies all records matching the specified search criteria and displays the following details for each one of them:

- Authorization Status
- Record Status
- Economic Destination

- Product Class

Double click the record to invoke the detailed screen.

4. Defining Product Categories and Products

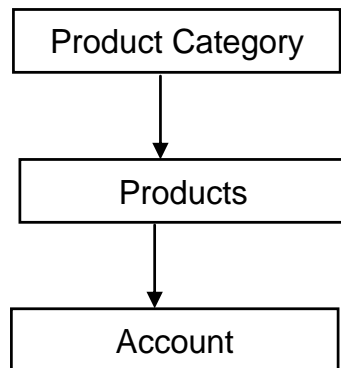
4.1 Introduction

You may offer your customers a variety of financial services such as Vehicle Loans, Home Loans, Personal Loans, and so on. The different types of loans can be different 'Product Categories'. A product category is used to distinguish between the various loan services offered by the bank. Each of these loans are totally different and hence the need to categorize them.

Under a product category, you may have loans that may vary in features such as pricing, tenor, amount etc. Each variation of these services can, therefore, be considered as 'Products'.

At the time of capturing a loan application, you would specify details such as Loan Amount, Tenor, and Asset Class etc. The system automatically resolves the Product Category and Product applicable based on the application details. Hence, the Loan Account is created under the appropriate product.

The CL Module will have an inheritance hierarchy as follows:



This chapter explains the procedure for setting up product categories and products.

4.2 Maintaining Product Categories

You can define the attributes for a Product Category in the 'Product Category Maintenance' screen. You can invoke this screen by typing 'CLDPRCMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a software window titled "Product Category". At the top, there is a text input field labeled "Product Category*". Below this is a section titled "Product Category Policy" which contains a table with two columns: "Policy Code*" and "Event Code*". The table has one row with empty input fields. At the bottom of the window, there are two tabs: "Product Rule" and "Fields". The "Fields" tab is selected, showing a form with fields for "Input By", "Authorized By", "Modification Number", "Date Time", and "Open", along with an "Exit" button.

The following details have to be captured in this screen:

Product Category

You have to specify the name of the loan service which will identify the category uniquely in the system. For example: Home Loan, Vehicle Loan etc. The category name can consist of a maximum of 20 alphanumeric characters. The categories maintained through this screen become available for creating products under it (in the 'Consumer Lending Product' screen).

Product category is mandatory to save the record in the system.

Policy Code and Event Code

To the category being defined, you have to associate a policy code. The policies maintained in the 'User Policy' screen are available in the option-list provided.

You have to associate an event code to each policy selected. Whenever the event is triggered, the associated policy gets executed.

4.2.1 Mapping Function Id with Policy Code

You can maintain a mapping of the various stages of the loan origination workflow with the policies to be used for validating the details in each stage. At each stage, validation of the details specified is carried out by executing the policy associated with that stage.

Function

Select the loan origination function for which you want to specify the validation policy, from the option list provided.

Policy Code

Select the validation policy to be attached to the function selected

For more details on loan origination, refer the Loan Origination process manual

For details on maintaining policy details, refer the section titled 'Maintaining User Defined Policies' in the 'Maintenances and Operations' chapter of this User Manual

4.3 Defining Product Component Class

A product component class is used as a template for the features that you define on the component details screen of a retail lending product. If you define a product component class, you can populate the details of the class while defining the component details for a product.

To invoke the 'Product Component Class' screen, type 'CLDCMPCL' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

Specify the following details:

Class Code

Specify a unique code that identifies the product component class.

Class Description

Specify a brief description for the class.

Module

Specify the module to which the class should be applicable. The adjoining option list displays all module codes available in the system. You can choose the appropriate one.

Component Details

The basic information for a component is specified here. This includes the following:

Component

Specify the name of the component. You can add more components to the component class. Subsequently, you have to define the parameters for these components.

Description

Specify a brief description of the component.

Currency

Associate the component with a currency. The component is expressed in the currency selected here. You can select the currency of your choice from the option list provided.

Calculation Type

Specify the manner in which the component should be calculated and liquidated. You can choose one of the following options (the applicable 'Component Type' is also provided):

- Formula with schedule (Component Type - Interest)
- Formula without schedule (Charge)
- Penal Interest
- Prepayment Penalty
- Discount
- Schedule without formula (Principal)
- No schedule No formula (Ad Hoc Charges)
- Penalty Charges
- Margin
- Savings



Note the following:

- 'Penalty Charges' are calculated only once for a 'Penal Basis' schedule. 'Penal Basis' is explained in this user manual.
- The component 'Savings' is used for interest calculation on the value dated balance of the savings account. This component needs to be defined as simple interest component with its basis element as 'CUSTAC_BAL', and rate to use as 'INTEREST_RATE'. Formula for this component is as shown:

```
@SIMPLE (CUSTAC_BAL, (INTEREST_RATE), DAYS, YEAR, COMPOUND_VALUE)
```

- A component of the type Ad hoc can be set up. Since ad hoc charges cannot be computed upfront or scheduled, select this field as 'No Schedule No Formula'.
- The simple interest for a component 'Margin' is calculated based on the formula as shown below:

```
@SIMPLE(PRINCIPAL_EXPECTED,INTEREST_RATE + MARGIN_RATE  
,DAYS,YEAR,COMPOUND_VALUE)
```

- The component 'Discount' is used for passing forward entries for a specific amount which is reversed during the closure of the loan.

Include in EMI

Check this box to indicate that the selected component should be included in EMI calculation.

Main Component

This option is used to designate a component as the 'Main' Interest component. If you enable the 'Main Component' option for a particular component, the system treats this component as the main component. Also, you are allowed to define the amortization schedules only for this component.

'Principal' is an implicit component that is automatically created for the product

Capitalized

You can indicate whether capitalization is required for all the schedules for various component of the loan. At anytime, the outstanding interest will be capitalized on the schedule date at the rate prevalent on that day. You can opt for capitalization at the component level or opt for capitalization/non capitalization for a particular schedule at the 'Schedule' level.

You could have more than one type of schedules applicable on a product. In such a case, you can designate one as the capitalized and the other as un-capitalized schedule.

Interest Posting Required

Check this option if you require interest posting.

Component Type

Specify the type of the component. The adjoining option list displays all the relevant component types. You can choose the appropriate one.

It defines the manner in which the component should be classified for reporting/accounting purposes. A component can be of one of the following types:

- Adhoc Charges
- Balloon principal
- Charge
- Deposit
- Discount
- Fee Accrual
- Funding Interest
- Insurance
- Insurance (Islamic)
- Interest
- Late Payment Fee
- Margin Basis Drawdown
- Margin Basis Facility
- Margin Basis Tranche
- Off-Balance Sheet
- Provisioning
- Refund
- Reimbursement
- Savings
- Tax



The fund interest component gets liquidated on schedule even if the customer does not pay the other components.

During EOD, provisioning event is triggered for all loan accounts linked to a customer whenever you modify the credit rating of a customer at the customer level. Provisioning amount is calculated based on the formula maintained for the Provisioning Component at the Product level. During EOD batch, PROV event is picked and processed for all the loan accounts for which PROV event is to be triggered. As a part of end of day batch accounting entries are passed for the calculated provision amount.

Even though the credit rating changes at customer level, the Provision event will not be triggered for accounts belonging to that CL product level, if the following maintenances are not done:

- Provisioning component maintenance at product level
- Provisioning event (PROV) maintenance at product level

- If Accrual frequency is daily at product level

Propagation Required

Check this option to indicate that the interest amount collected from the borrower should be passed on to participants.

Adhoc Charge Category

This field is enabled when 'Adhoc Charges' is selected as the component type. Select the adhoc charge category from the adjoining drop-down list. The list displays the following values:

- Guarantor Recovery
- Collection Agency
- Settlement
- Deferred Charge

The 'Guarantor Recovery' adhoc charge is used to update the National Collateral Fund due, calculated based on payment amount.

The 'Deferred Settlement' adhoc charge is used to book the adhoc charge sum of all components where settlement mode is selected as 'First Installment'. The 'Deferred Charge' adhoc charge is used to book the adhoc charge sum of all loan disbursement level charges where settlement mode is selected as 'First Installment'.

Moratorium Preferences

The following parameters have to be specified:

Moratorium Period and Period Units

If you wish to provide a moratorium on a loan, you need to mention the moratorium period and moratorium unit for each component. This refers to a repayment holiday at the beginning of the loan.

When you input a loan in Oracle FLEXCUBE, the repayment start date of each component will be defaulted based on your specifications here. The moratorium unit should be in terms of:

- Days
- Months
- Years

Prepayment Threshold

This includes the threshold amount and currency, explained below:

Amount

Here, you can maintain the minimum limit for allowing prepayment of schedules. If the residual amount after prepayment against a schedule is less than the threshold amount you specify here, the system will disallow the prepayment.

Currency

If you specify the threshold amount, you also have to indicate the currency in which the amount should be expressed. You can select the currency from the option-list provided.

Component Attributes

The component attributes include the following:

Special Component

You can define a component as a 'Special Interest Component'. You can override such components at the account level. You may need to apply a special interest component as a result of customer negotiations. A special interest component is specified as an amount.

Periodicity

The periodicity of the component can be either:

- Daily
- Periodic

If you choose the periodicity as 'Daily', any changes to UDE and SDE values will result in recalculation of the component. The recalculation happens as and when a change in value occurs. If maintained as 'Periodic', the values and calculations of the elements will be refreshed on the last day of the period.

In case of a product having main and subsidy interest components, the schedule periodicity needs to be identical for both components.

Formula Type

You can specify the type of formula to be used for calculating the component. This formula is applied for the component across all its' schedules. It can be one of the following:

- User Defined: This can also include a combination of standard formulae for different schedules of the component or can have a completely user defined formula.
- Standard
 - Simple
 - Amortized Rule of 78
 - Discounted
 - Amortized Reducing
 - True Discounted
 - Rate Only
 - Amortized Payment in Advance
 - Simple Payment in Advance
 - Discounted Schedules
- Provision – You can use this formula type for defining a provisioning component. You need to use the following component and calculation types:
 - Component Type - Provision
 - Calculation Type - Formula without schedule
 - Formula Type - Provision

You can choose the option 'Amortized Reducing' for subsidy component.



Note the following:

- This is not applicable for the 'PRINCIPAL' component
- For a commitment product, the formula type cannot be 'Amortized', 'Discounted' or 'Simple'

Liquidation Group

Specify the liquidation group ID that needs to be availed.

During allocation processing, the system checks the Liquidation Group ID maintained for the components in the liquidation order. For each component being processed, all the components under the same Liquidation Group ID will be considered before moving to next component in liquidation order.

Penal Basis

You may want to allot the penalty to the recovery of certain components. Once a component is overdue, an appropriate penalty is applied. Therefore, you need to identify the component, which on becoming overdue will trigger the penalty computation. However, the system will calculate the penalty on the component you select in the 'Basis Element' field.

For VAT component, you need to set Penal Basis as the underlying charge component. The system validates if the penal basis component is a charge other than the penal basis and that both these charges are attached to the same event. The SDE '<BASIS_COMP>_CURVAL' indicates the amount due for the penal basis component.

Whenever the event associated with the penal basis and VAT component charge is triggered, the penal basis component is calculated first, after which VAT component is calculated.



For commitment products 'PRINCIPAL' is not used for penal basis and for basis amount. In case of EMI products, installment amount is used for calculating the penalty.

Balance Type

Identify the nature of the balance that the component would hold. The following are the options available:

- Debit
- Credit

For instance, for a loan product, the 'Principal' component is expected to have a 'Debit' balance.

Component Defaults

For computing interest, you have to specify the following:

Days in Year

You can specify the number of days to be considered for a year during computation of a particular component. This could be:

- 360: This means that only 360 days will be considered irrespective of the actual number of calendar days
- 365: In this case, leap and non leap year will be 365
- Actual: In this case, leap year will be 366 and non leap year will be 365

This value corresponds to the denominator part of the interest method

Days in Month

Here, you have to specify the number of days to be considered in a month for component computation. The options available are:

- Actual: This implies that the actual number of days is considered for calculation. For instance, 31 days in January, 28 days in February (for a non-leap year), 29 days in February (for a leap year) and so on
- 30 (EURO): In this case, 30 days is considered for all months including February, irrespective of leap or non-leap year
- 30 (US): This means that only 30 days is to be considered for interest calculation for all months except February where the actual number of days is considered i.e. 28 or 29 depending on leap or non-leap year

The value selected here corresponds to the Numerator part of the Interest method

Grace Days

The grace days refer to the period after the repayment date, within which the penalty interest (if one has been defined for the product) will not be applied, even if the repayment is made after the due date. This period is defined as a specific number of days and will begin from the date the repayment becomes due. However, if the customer fails to repay even within the grace period, penalty will be applied and calculated from the repayment due date.

However, in case a penalty charge is defined for a penal basis component under a retail lending product, the 'Grace Days' is defined as part of itself. The schedule due date for the penalty charge is then computed by adding the 'Grace Days' to the corresponding schedule due date of the penal basis component.

Verify Funds

You can indicate whether the system should verify the availability of sufficient funds in the customer account before doing auto liquidation of the component.

Interest Method Default from Currency Definition

You also have the option to use the interest method defined for the currency of the component. In this case, the interest method defined in the 'Currency Definition' screen (for the component currency) will become applicable to the loan. By default, this option is checked.

Internal Rate of Return Applicable

Check this option to indicate that the chosen component needs to be considered for Internal Rate of Return (IRR) calculation. This option is applicable to interest, charge, adhoc charge, prepayment penalty, penalty and upfront fee components.



This option should not be checked for Commitment products.

If a charge component is to be considered for IRR, the charge will be accrued using the FACR (Upfront Fee Accrual) batch.

The following components cannot be considered for IRR calculation:

- Off-balance sheet component
- Provision component

If you check this option, then you have to check the 'Accrual Required' option.

For bearing type of component formula, you can check this option only if the 'Accrual Required' option is checked.

For discounted or true discounted types of component formula, this option will be enabled irrespective of the whether the 'Accrual Required' option is checked or not. If this option is checked and 'Accrual Required' is not, the discounted component will be considered as a part of the total discount to be accrued for Net Present Value (NPV) computation. If both 'Accrual Required' and 'IRR Applicable' are checked, then discounted interest will be considered for IRR computation.

Accruals/Provisioning

To perform accrual of the components, you have to capture the following details:

Accrual Required

You can use this option to indicate that the component has to be accrued and provisioning is applicable. For the components that have been marked for accrual, you need to specify the accrual frequency, start month and start date in the respective fields.

If the 'Calculation Type' is 'Penalty Charges' for a component, the 'Accrual Required' option is disabled.



If you maintain a simple interest type product you do not need a 'Bullet' schedule. However, in case of an amortizing product "Bullet" schedule has to be maintained separately

Frequency

If you have opted for accrual and provisioning for the components, you have to specify the frequency for the same. The frequency can be one of the following:

- Daily
- Monthly
- Quarterly
- Half yearly
- Yearly

Start Month

If you set the accrual/provisioning frequency as quarterly, half yearly or yearly, you have to specify the month in which the *first* accrual has to begin, besides the date.

Start Date

In the case of monthly, quarterly, half yearly or yearly frequencies, you should specify the date on which the accrual/provisioning has to be done. For example, if you specify the date as '30', accruals will be carried out on the 30th of the month, according to the frequency that you have defined.

Accrual on Start Date

Check this box to accrue full amount on schedule start date. When the accrual frequency is set to Daily at component level, this flag is enabled.

Insurance Details

These fields get enabled only for component class 'Insurance'. Specify the following insurance details:

Continue Post Maturity Until Write-Off

Check this box to indicate that the system builds insurance schedules post maturity progressively until write-off or loan is liquidated.

Insurance Type

Select the insurance type from the adjoining drop-down list. The list displays the following values:

- Life
- Vehicle/Machinery
- Unemployment
- National Collateral Fund

Insurance Termination Days

Specify the number of overdue days after which the loan will stop accrual of future installments, i.e. the current schedule insurance premium will be collected as it is already accrued and it will be '0' for all the future schedules except current running schedule.

Rate Conversion Preference

Specify the following details:

Refund Basis Component

This field is enabled when 'Refund' is selected as the component type. Specify the discounted component which will be the basis for calculation of Refund Amount. The adjoining option list displays all the relevant components maintained in the system. You can choose the appropriate one.

Schedule Preferences

In the 'Component' section of the screen, you need to maintain the applicable schedule details for each component:

Sequence Number

You can define more than one schedule for a component. The sequence number determines the order in which the individual schedule should be applied on a component. For instance, you can define a schedule structure consisting of a moratorium schedule and a normal schedule. The moratorium schedule, if defined for a component, should necessarily be the first schedule. You cannot have moratorium schedules in between normal schedules.

Schedule Type

You can define the schedule type here. The options are:

- **Payment:** This is used to define a repayment schedule. You can capitalize a payment schedule. If the 'Capitalized' option (under Component Definition) is checked, the 'Capitalized' option at the schedule level will also be checked for payment schedules. You can, however, uncheck/check this option for a schedule.
- **Disbursement:** You can maintain a disbursement schedule for loan disbursement if the 'Disbursement Mode' is automatic (this is maintained on the 'Preferences' button). For auto disbursement, you have to maintain at least one disbursement schedule.
- **Rate Revision schedules:** This will capture the schedule at which the rates applicable to the component should be revised.

Start Reference

This is used to capture the reference to arrive at the due date of the schedule. The options are:

- **Calendar:** If you select this option, you should also specify the 'Start Date' for the schedule. For example, if an account is created on 15th Sept with a 'Monthly' schedule frequency and the Start Date is 1st, then the schedule due dates would be 1st Oct, 1st Nov and so on.
- **Value Date:** If you select value date, the schedule due dates will be based on the Value Date of the account. For instance, if an account is created on 15th Sept and the schedule frequency is 'Monthly', then the schedule due date would be 15th October, 15th Nov and so on.

For a component, you can define schedules based on both value date and calendar date.

Frequency Unit

Here, you have to capture the unit to define the schedule. The unit can have the following values:

- Daily
- Weekly
- Monthly
- Quarterly

- Half Yearly
- Yearly
- Bullet

If the schedule unit is 'Weekly', you should also capture the 'Start Day'. Similarly, for units 'Quarterly', 'Half Yearly' and 'Yearly', you should also specify the 'Start Month'.



If you maintain a simple interest type product, you do not need a 'Bullet' schedule; however, in case of an amortizing product you need to maintain a 'Bullet' schedule separately.

Frequency

This is used in combination with 'Unit' explained above, to define non-standard frequencies. For instance, a 'Monthly' unit and frequency 2 implies that the schedule is bi-monthly (occurring every two months).

Start Day

If the schedule unit is 'Weekly', you should specify the start day to initiate the schedule. The drop-down box lists the days of the week

Start Month

This is applicable if the schedule unit is one of the following:

- Quarterly
- Half Yearly
- Yearly

The drop-down box lists the months in a year

Start Date

Here, you can specify a value between 1 and 31. This is applicable if the schedule unit is 'Monthly'

Due Date On

You can use this to define a schedule on a particular date of the month. A value between 1 and 31 can be used for this purpose. If you specify a value here, the system will build the schedules based on this date even if you have indicated the 'Start Date' for the schedule.

If the loan is sanctioned under a customer agreement and this box is checked, then the system will default the 'Due Date On' field from customer agreement and you cannot modify it. However, if this box is checked and 'Due Date On' field is NULL, then the system will default the disbursement day as 'Due Date On'

Formula Name

You have to select the formula applicable for component value calculation. The Booked and Intermediate formulae defined for the component are available in the option list. With a user-defined formula maintained through the rule builder, you can define a schedule with multiple formulae.

Schedule Flag

You can define a non-repayment schedule or a repayment schedule. This field is used to identify the schedule type:

- Normal: This refers to a repayment schedule. Repayment happens as and when the schedule falls due
- Moratorium: This refers to a non-repayment schedule or a repayment holiday during the repayment cycle of a loan

Number of schedules

The value captured here determines the number of times a schedule frequency should recur. For example, a 12 monthly schedule would have a 'Monthly' unit and number of schedules as 12. The number of schedules you specify here should be in accordance with maximum tenor you have specified in 'Tenor' section of 'Preferences' tab.

Capitalized

Check this option to specify capitalization of the component for a particular schedule. If the 'Capitalized' option (under Component Definition) is checked, the 'Capitalized' option at the schedule level will also be checked for payment schedules. You can, however, uncheck this option for a schedule.

Formula Name

Specify a suitable name to identify the formula.

For further details on the buttons 'Book Formulae', 'Intermediate Formulae' and 'Moratorium Formulae' on this screen, refer to the section 'Specifying Components Details' in this chapter.

4.4 Maintaining Product Class Details

You can maintain the product class parameters in the 'Product Class Maintenance' screen. You can invoke this screen by typing 'CLDPRCLS' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Product Class Maintenance' window with the following fields and values:

- Product Class: [Empty]
- Description: [Empty]
- Allowed Customer Type: Both
- Product Type: Retail
- Rate Ceiling:
 - Maximum Lending Rate Code: [Empty]
 - Supplementary Rate Code for Disbursement: [Empty]
- Penalty Interest Rate:
 - Rate Code: [Empty]
 - Rate Template ID: [Empty]
 - Rounding Rule: Round Near
 - Rounding Unit: [Empty]
- Maker/Checker: [Empty]
- Date Time: [Empty]
- Mod No: [Empty]
- Record Status: [Empty]
- Authorization Status: [Empty]

Specify the following details:

Product Class

Specify the product class.

Description

Specify the description for the product class.

Allowed Customer Type

By default, the system displays 'Both' as the customer type that is allowed, but this can be modified. Select the customer type from the adjoining drop-down list that is allowed under the product class. The list displays the following values:

- Both
- Individual
- Corporate

Product Type

By default, the system displays 'Retail' as the product type, but this can be modified. Select the product type from the adjoining drop-down list. The list displays the following values:

- Retail
- Commercial

Rate Ceiling

Specify the following rate ceiling details:

Maximum Lending Rate Code

Specify the maximum lending rate code (usura rate code). The adjoining option list displays all the rate codes maintained in the system. You can choose the appropriate one.

Supplementary Rate Code for Disbursement

Specify the supplementary rate code (maximum remuneratory rate code) for disbursement. The adjoining option list displays all the rate codes maintained in the system. You can choose the appropriate one.

Penalty Interest Rate

Specify the following penalty interest rate details:

Rate Code

Specify the penalty interest rate code. The adjoining option list displays all the rate codes maintained in the system. You can choose the appropriate one.

Rate Template ID

Specify the template ID used to convert penal rate into one day penal rate. The adjoining option list displays all the template IDs maintained in the system. You can choose the appropriate one.

Rounding Rule

By default, the system displays 'Round Near' as the rounding rule, but this can be modified. Select the rounding rule from the adjoining drop-down list. The list displays the following values:

- Round Near
- Round Up
- Round Down

Rounding Unit

Specify the decimal rounding unit.



Maximum remuneratory, usura and penalty rates are maintained in the 'LD MM Floating Rate Input' screen. These rates are maintained for each product class. Distinct rate codes are assigned to these rates.

Example

If rates are to be maintained for commercial and retail product class, the following naming convention is used

- Commercial Product Class: MR_RATE_COMM, USR_RATE_COMM and PNLT_RATE_COMM for Maximum Remuneratory, Usura and Penalty rate respectively.
- Retail Product Class: MR_RATE_RTL, USR_RATE_RTL and PNLT_RATE_RTL for Maximum Remuneratory, Usura and Penalty rate respectively.

It is expressed in effective annual (E.A). When the rate codes are nearing expiry date, an expiry notice will be generated.

Refer the section 'Maintaining Floating Rates' in the Core Services User Manual for information on 'LD MM Floating Rate Input' screen.

4.4.1 Validations During Maintenance of Rates

You have to first maintain rate code and rate value for all three types of rate in the 'LD MM Floating Rate Input' screen. The order of maintenance is as follows:

1. Lending Rate Code (Usura rate code)
2. Supplementary Rate Code for Disbursement (Maximum Remuneratory)
3. Penalty Interest Rate Code

You have to maintain product class in the 'Product Class Maintenance' screen and then attach the rate code maintained. During save operation, the system will validate that value of penal rate code with the Usura Rate code value. If the penal rate code value is higher than the Usura rate code value, the system will not save the product class. In this case, you have to manually update either penal rate code value or Usura rate code value in the 'LD MM Floating Rate Input' screen.

- During the modification of rate value for penalty interest rate code, the system will validate if this penal rate is attached to any product class. If this rate code is attached to a product class, the system will validate the newly maintained value with the lending rate code maintained for the same dates. If the newly maintained value for penal rate code is higher; the system will not save the floating rate maintenance.
- The system validates that a valid USURA/MRR exists for the date for which PENAL is maintained.
- The system validates that the PENAL rate is not greater than the USURA/MRR rate maintained.
- The system also validates that the PENAL effective dates do not extend beyond the validity of USURA/MRR rates.
- Back value dated rate code value maintenance is restricted for all the rate codes.
- For a product class while maintaining the associated rate codes, system does not allow the effective until date of the 'Supplementary Rate Code for Disbursement' and 'Penalty Rate Code' to be greater than the effective until date of 'Lending Rate Code'.
- The system validates that there is a valid rate maintained for all the days i.e. effective since date of rate is the next date of effective until date of the old rate.

4.5 Viewing Product Class Summary Details

You can query and view all the product class details using the 'Product Class Summary' screen. You can invoke this screen by typing 'CLSPRCLS' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Product Class Summary' application window. The window title is 'Product Class Summary'. The interface includes a search area with the following fields and controls:

- Authorization Status: [v]
- Product Class: [v]
- Maximum Lending Rate Code: [v]
- Rate Code: [v]
- Record Status: [v]
- Allowed Customer Type: [v]
- Supplementary Rate Code for Disbursement: [v]
- Rounding Rule: [v]

Below the search area are buttons for 'Search', 'Advanced Search', 'Refresh', and 'Reset'. A table below shows a single record with columns: Authorization Status, Record Status, Product Class, Allowed Customer Type, Maximum Lending Rate Code, and Supplemen. The table is currently empty of data rows. At the bottom right of the window is an 'Exit' button.

You can query based on any or all of the following criteria:

- Authorization Status
- Record Status
- Product Class
- Allowed Customer Type
- Maximum Lending Rate Code
- Supplementary Rate Code for Disbursement
- Rate Code
- Rounding Rule

Click the 'Search' button. The system identifies all records matching the specified search criteria and displays the following details for each one of them:

- Authorization Status
- Record Status
- Product Class
- Allowed Customer Type
- Maximum Lending Rate Code
- Supplementary Rate Code for Disbursement
- Rate Code
- Rounding Rule

Double click the record to invoke the detailed screen.

4.6 **Setting up a CL Product**

As mentioned at the beginning of this chapter, within a category you may have loans that differ in amount, tenor or other preferences.

These may be categorized into products. The loan product is derived from the product category based on the product rule that it satisfies.

Product Categories and Products are created at the Head Office (HOB) and you can create accounts under the products at branch level.

The branches that can offer the products are further determined by the branch restrictions defined for the products.

You can capture product details in the 'Product Maintenance' screen. You can invoke this screen by typing 'CLDPRMNT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

In this screen, you can enter basic information about a product such as the Product Code, the Description, etc.

Specify the following details:

Product Code

Enter a product code. The code you enter for a product identifies it throughout the module. You can follow your own conventions for devising the code. However, it must have a minimum of four characters.

When defining a new product, you should enter a code. This code is unique across the CL modules of Oracle FLEXCUBE. For instance, if you have used VA01 for a product in this module, you cannot use it as a product code in any other module.

Product Description

Enter a brief description of the product. This description will be associated with the product for information retrieval.

Product Type

Select the type of consumer Lending product that you are creating. The options available are:

- Loan – Select this option if you want to create a loan product
- Commitment – Select this option if you want to create a commitment product

Product Class

Specify the product class. The adjoining option list displays all the product class maintained in the system. You can choose the appropriate one.

Product Category

Products can be categorized into groups, based on the common elements that they share. For example Vehicle Loans, Personal Loans, Home Loans, and so on. You must associate a product with a category to facilitate retrieval of information for a specific category.

The categories defined through the 'Product Category Maintenance' are available in the option-list provided.

Slogan

You can enter a marketing punch line for every product you create. This slogan will be printed on all advices that are sent to customers who avail of the product.

For example, if you set up a borrowings product called Money Multiplier, you could enter the slogan 'Watch your money grow with Money Multiplier.'

Start Date and End Date

A product can be defined to be active over a specific period. When you create a product, you can specify a 'Start Date' and 'End Date' for it. The product can only be used within the specified period (i.e. within the Start Date and End Date).

If you do not specify the Start Date, the branch date will be displayed as the Start Date.

If you do not specify an End Date for a product, it can be used for an indefinite period.

The start and end dates of a product come in handy when you are defining a product that you would like to offer over a specific period.

Remarks

When creating a product, you can enter information about the product intended for your bank's internal reference. This information will *not* be printed on any correspondence with the customer.


4.6.1 Defining Other Attributes for a Product

After specifying the basic details of a product, you can define the other finer attributes for a product in the appropriate sub-screens provided. From the 'Consumer Lending Product' screen, you can move to the sub-screen of your choice to define these details. Click on the buttons provided at the bottom of the screen for this purpose.

Each button is explained briefly in the table below:

Button Name	Description
User Date Elements	To define the UDEs and Components relating to the product
Preferences	To indicate your preferences specific to the product
Components	To specify the component details, schedule definition and formulae for the product
Notices and Statements	To specify details of account statements and notices to be issued to customers. These have to be generated for different events in the life cycle of a loan
Role to Head	To specify accounting roles and account heads for the product. (The concept of accounting roles and heads is explained later)
Account Status	To indicate the status preferences for the product
Events	To specify events
Branch/Currency Restriction	To define the branch and currency restrictions for the product
Customer Category Restriction	To Define the Customer Category Restrictions and Customer Access Restrictions for the Product
Fields	To associate User Define Fields(UDFs) i.e. Character Fields, Number Fields and Date Fields, with the product
Credit Score	To maintain the rules for calculating the credit score of a customer
Minimum Amount Due Method	To define the MAD formula for OLL product
Product Fields	To define the additional product details

Button Name	Description
MIS	To define MIS details

 There are some fields in the product definition screens, to which input is mandatory. If you try to save a product without entering details in these fields, the product will not be saved.

When you save a product that you have created, your user-id will be displayed in the 'Maker' field and the date and time at which you saved the product in the 'Date/Time' field. The Status of the product will be updated as 'Unauthorized'. A product is available for use only after it has been authorized by another user.

4.6.2 Indicating Preferences for a Product

Preferences are the options that are available to you for defining the attributes of a loan account product. These could be:

- The manner in which the system should handle schedules falling due on holidays
- Whether rollover should be automatic or with user intervention (manual)
- The tenor details for the loan
- Whether receivables should be tracked for the loan account etc.

The options you choose, ultimately, shape the product. These details are used for loan account processing.

Click 'Preferences' button in the 'Product Definition' screen to move to this section of the screen.

You should maintain the following preferences for the loan product:

4.6.2.1 Rate/Account Preferences tab

Rate

The exchange rate preferences include the following:

Rate

You have to indicate the exchange rate applicable for the product you are maintaining. The available options are:

- Mid Rate
- Buy/Sell Rate

By default, the Buy/Sell Rate is used.

Rate Type

You have to select the code that should be used for the product from the option list provided. The 'Rate' and 'Rate Type' are used in combination to determine the actual rate applicable for currency conversion.

The default value for Rate Code is 'STANDARD'. This means that, if you choose 'Mid Rate', the mid rate maintained for the STANDARD code is used for the loans created under the product.

Maximum Variance

When creating a product, you can capture the maximum limit for rate variance. This is expressed in percentage. The variance between the exchange rate (specified for the product) and the rate captured for a loan (at the account level) should not be greater than the value specified here. If the exchange rate exceeds the maximum variance that you have defined for the product, the system will not allow you to save the loan. The transaction is rejected.

This value should be greater the value for 'Normal Variance'.

Normal Variance

You also need to specify the minimum/normal variance allowed for the rate. If the exchange rate variance between the exchange rate (specified for the product) and the rate captured for a loan exceeds the value specified here, the system will display an override message before proceeding to apply the exchange rate. The normal variance should be less than the maximum variance.

For back valued transactions, the system applies the rate on the basis of the exchange rate history. The variance will be based on the rate prevailing at that time.

Amount Range Validation

Check this box if you need to maintain the loan amount range tenor wise details in the 'Tenor Amount Details' screen.

First Repayment Date

Maximum Initial Grace Days

Enter the maximum initial grace days for first repayment. It will be referred by the system for validating the First Due date in the schedule definition for repayment schedules of all components. The first repayment schedule date must lie within the grace period from the value date of the account.



This will be applicable only for the new accounts created during product maintenance,

Indirect Payment Parameters

Specify the following indirect payment parameters:

Indirect Payment GL

Specify the indirect payment GL. The adjoining list displays all the GLs maintained in the system. You can choose the appropriate one. This GL is used as the credit leg for Indirect payments.

Refund GL

Specify the refund GL. The adjoining list displays all the GLs maintained in the system. You can choose the appropriate one.

Account Preferences

As part of specifying the account preferences, you can indicate the following:

Amend Past Paid Schedule Allowed

This option, if checked, allows you to perform value dated amendments to interest rate, installment amount etc with effective date beyond the last paid schedule. In such a case, the increase/decrease in the interest amount, as a result of the amendment, will be adjusted against the next available schedule after the current system date (date on which the amendment was performed) even if unpaid (overdue) schedules are present for the loan. Note that this option is applicable only to term loans.

Back Period Entry Allowed

This option facilitates back valued transactions. If you select this option, you will be allowed to process transactions with a value date less than the current system date.

Interest Statement

You have to select this option to facilitate interest statement generation for the account.

Liquidate Back Valued Schedules

If you select this option, on initiation of a back value dated loan, all the schedules with a due date less than the system date will be liquidated.

Special Interest Accrual

If you check this box, accrual of interest is done on the basis of the formula specified for a component. Otherwise, interest accrual will be done based on the number of days in the schedule.

Securitization Allowed

Check this box to allow securitization for the contract.



The loan contracts which belong to those securitization enabled products will be available for the securitization pool selection.

For more information on securitization, refer 'Securitization' User Manual

When a loan is securitized, the system transfers the payments related to Principal/Interest/Charges to SPV's settlement account (system automatically posts accounting entries to the respective account after validating the rule (LOAN_STATUS ='SECR') defined).

For more information on defining accounting entries for securitized loan, refer topic 'Defining Accounting Entries for a Securitized Loan' later in this chapter.

Project Account

Check this box to track multiple limit lines in case of joint venture. The settlement account for these loans will be the project account.

CL Against Bill

Check this box if you want this CL product to be used for loans against an export bill. By default this is not checked.



You are allowed to link multiple loans against one bill.

Limits Product

Check this box to indicate that the product is for limits. If you check this option, the product will be available for limits linkage during line creation.

Packing Credit Product

Check this box to indicate the possibility of linking CL Accounts to BC under this product.

For more details on the Packing Credit Sub System and Pre-Shipment Finance refer section 'Specifying Purchase Details' in chapter 'Processing Bills' of the 'Bills and Collections' manual

Notary Confirmation Required

You can check this box to indicate that the product is a mortgage product that requires confirmation from the notary for disbursing the loan.

For Loan Against Salary

Check this option to indicate that loan against salary should be allowed for a CL Product. The system defaults this value to loan account details screen.

Rate Plan Change Frequency

You can change the rate plan frequency of a loan account in the 'Preferences' button of the Product screen.

Tenor

Specify the amount of time to be given to the customer for rate change plan option..

Unit

Select the unit for the specified tenor from the drop-down list. The following options are available for selection:

- Monthly

- Yearly

Rate Plan Window

Tenor

Specify the amount of time that the customer can take to decide on the 'rate plan' and intimate the bank about the decision.

Unit

Select the unit for the rate plan tenor from the drop-down list. The following options are available for selection:

- Monthly
- Yearly

Liquidation Preferences

Liquidation preferences include the following:

Liquidation Mode

You can specify the mode of liquidation from the drop-down list. The following options are available for selection:

- Auto
- Manual
- Component

Allow Partial Liquidation

In case of insufficient funds in the account, you can instruct the system to perform partial auto liquidation to the extent of funds available in the account. However, if this option is not selected, the schedule amount due will not be liquidated if sufficient funds are not available in the account.

Reset Retry Count for Reversed Auto Liquidation

If you have maintained a limit on the number of retries for auto liquidation, this option will reset the retries count to zero during reversal of auto liquidation. This will be applicable from the date of reversal of payment. Hence, the system will once again attempt auto liquidation till the number of retries allowed. The system will update the status of the reversed payment to 'Unprocessed' after which it again attempts auto liquidation.

Retries Auto Liquidation Days

Capture the number of working days for which the system should attempt auto liquidation. The number of retries per day will depend on the configuration maintained for the 'Liquidation Batch Process' - during BOD, EOD or both. For instance, if the batch is configured for both EOD and BOD, and the number of retry days is '1', then, auto liquidation is attempted twice on the same day i.e. once during BOD and another retry at EOD.

Guarantor A/C Applicable Status

Select customer account status at which guarantor account should be considered, from the adjoining option list. This list displays all valid status maintained at the customer account level.

Auto Liquidation Basis

Select the auto liquidation basis value from the drop-down list. Following are the options available in the drop-down list:

- % of Amount Due
- Min Amount Due

The system will liquidate the amount due on the pay by date. If any payment is done between the billing date and payment date then the system will deduct the paid amount from the ALIQ amount.

In case there is a need to track receivables, then for open line loans the same will be done only for the ALIQ amount that is outstanding for the last billing period.



This field is applicable only for Open Line Loans.

Percentage

Specify the percentage for the auto liquidation basis.

Eligible days during dsbr on pmt

Specify the maximum number of days till which an installment overdue on an existing loan for a customer should be considered by the system while processing a new loan for the same customer. This implies that a new loan is disbursed to a customer if he does not have any installment overdue on his existing loans (where he is the primary borrower), within the number of days specified. This is applicable for both manual as well as auto mode of disbursal.



You need to maintain NOD_DSBR as a user policy and attach it to DSBR event.

Revolving Loan

The following options are available to specify a revolving loan:

Revolving Type

Check this box to facilitate the reset of credit for loans availed under this category as and when payment is received.

Open Line Loans

Check this box to indicate that the product type is Open Line Loans.



Open Line Loans should always be revolving type. Open Line Loans product will support only Manual disbursement.

Credit Days

The system will display the repayment date (pay by date). The repayment date (pay by date) should be 'X' number of days after the billing date.

OLL account will arrive the pay by date based on the credit days entered here plus schedule due date.

BOC Disbursement Mode

By default, the system displays 'Manual' as the displacement mode, but this can be modified. Select the BOC disbursement mode from the adjoining drop-down list. The list displays the following values:

- Manual
- Automatic

This field works with conjunction with disbursement mode. The functionality based on the values in these fields is as follows:

Disbursement Mode	BOC Disbursement Mode	Functionality
Auto	Auto	Auto disbursement functionality with single disbursement mode. If the details are specified in the 'Disbursement Settlement Modes' sub-screen at the account level, then the system would display an error message during save since such details are not applicable for the disbursement mode combination.
Auto	Manual	Not applicable
Manual	Auto	The 'Disbursement Settlement Modes' sub screen will be enabled in the 'Account Details' screen. You can opt for multimode disbursement mode. On authorization, the system will internally trigger the manual disbursement.
Manual	Manual	Manual disbursement. The 'Disbursement Settlement Modes' sub screen will be enabled in the 'Account Details' screen. You can opt for multimode disbursement mode.

You can calculate the minimum amount due based on the formula chosen maintained in the Product Maintenance. You can also maintain different formula for OLL minimum amount due calculation. Clicking on 'Min Amount Due Method' button, the following window is displayed:

Minimum Amount Due Calculation Method

Rule Name *

Default Rule

Minimum Amount Due Rule Expression

<input type="checkbox"/> Line *	Condition	Movement Rule	Result

Ok Cancel

Rule Name

The system displays the unique name for the formula setup.

Default Rule

Check this box to identify whether the method is default method or not.

Min Amount Due Calc Method Expression

Line

Specify the line number.

Condition

Set the condition by clicking on the 'Condition' button. The specified condition is displayed in the adjoining field.

Result

The system displays the result.

The following validations should be done for open line loans:

- Holiday treatment for all schedules:
 - Move across month and cascade schedules should be unchecked always
 - Ad-hoc treatment required can be applicable – pay by date will be moved either backward or forward based on the product setup.
- Holiday treatment for maturity dates/value dates:
 - Move across month should be unchecked always
- Following account preferences cannot be checked:
 - Passbook facility
 - ATM facility
 - Amend Past Paid Schedule
 - Cheque book
 - CL against bill
 - Packing credit product
- Following Product preferences are not applicable:
 - Revaluation required
 - Prepayment of loan
 - Readjustment entry preferences
 - Interest preference
 - Re-computation of amortized loan
 - A/c opening instalments
 - Holiday period
- Following Accrual preferences are not applicable:
 - Frequency
 - Handling of foreclosure
 - Acquisition type
- Following are not applicable in the components:

- Calculation type – Discount
- Include in EMI
- Capitalized
- IRR
- Moratorium
- Installment level status change
- Component Formula type can only be one of the following:
 - Simple
 - User defined
 - Rate only

4.6.2.2 Holiday Preferences Tab

The value date, schedule date, revision date or the maturity date of a contract might fall on a local holiday defined for your branch or on a holiday specified for the currency involved in the contract.

You need to specify the following holiday parameters, which has to be considered for holiday handling:

Adhoc Treatment Required

Check this option to allow the movement of due dates of the schedules that fall on the newly declared holidays. This option is enabled only if the options, Ignore Holidays parameter and the Cascade Schedules parameter are not checked at the product level.

Ignore Holidays

If you check this option, the schedule dates will be fixed without taking the holidays into account. In such a case, if a schedule date falls on a holiday, the automatic processing of such a schedule is determined by your holiday handling specifications for automatic processes, as defined in the 'Branch Parameters' screen.



The system will ignore the holidays while computing the billing dates and consider the holiday parameter setup in product while computing the pay by date for OLL account.

If this box is unchecked the schedule dates are not allowed on holidays and should always fall on a working day. Working day can be either next working day or previous working day. This is decided based on "Schedule Movement" preference selected.

Cascade Schedules

If you check this option, when a particular schedule falls due on a holiday and hence is moved to the next or previous working day (based on the 'Branch Parameters'), the movement cascades to other schedules too. If not selected, only the affected schedule will be moved to the previous or next working day, as the case may be, and other schedules will remain unaffected.

Example

Assume that you have opted to move holiday schedules to the next working day and a schedule falling due on 29th April is moved to 30th April, 29th being a holiday.

The schedule date for May depends on whether you have chosen to cascade schedules. If you have, chosen to cascade schedules, the schedule date for May will be set as 30th May, since the frequency has been specified as monthly. All subsequent schedules will be moved forward by a day.

If you have not specified that schedules have to be cascaded, the date originally specified will be the date for drawing up the remaining schedules. Even if you move the April schedule from 29th to 30th, the next schedule will remain on 29th May.

However, when you cascade schedules, the last schedule (at maturity) will be liquidated on the original date itself and will not be changed like the interim schedules. Hence, for this particular schedule, the interest days may vary from that of the previous schedules.

To indicate if movement of due dates will have cascading effect on future schedules or not. However, when "Due Date On" is input, the schedules will be generated based on "Due Date On" and "Cascade Schedules" preference will be ignored by the system

Move Across Month

If you have chosen to move the schedule date of a loan falling due on a holiday, either to the next or previous working day and the movement crosses over into a different month, then this option will determine whether the movement should be allowed or not.

Schedule Movement – Forward /Backward

If you opt to move the schedule date falling due on a holiday across months, you need to specify whether the schedule date should move forward to the next working day in the following month or move backward to the previous working day of the current schedule month itself.

However, if you opt to ignore the holidays and do not select the 'Move Across Months' option, the system ignores the holidays and the due will be scheduled on the holiday itself.

Authorization Rekey

As a cross-checking mechanism to ensure that you are invoking the right loan for authorization, you can specify that the values of certain fields should be entered, before the other details are displayed. The complete details of the loan will be displayed only after the values to these fields are entered. This is called the re-key option. The fields for which the values have to be given are called the re-key fields.

You can specify the values of a loan that the authorizer is supposed to key-in before authorizing the same.

You can select the fields from the option list provided. If no re-key fields have been defined, the details of the loan will be displayed immediately once the authorizer calls the loan for authorization.

The re-key option also serves as a means of ensuring the accuracy of the data captured.

4.6.2.3 Account Preferences Tab

Specify the account preferences in the 'Account Preferences' section.

The screenshot shows the 'Preferences' dialog box with the 'Account Preferences' tab selected. The dialog is organized into several sections:

- Readjustment Entry Preferences:** Includes radio buttons for Debit (Adjust, Settlement) and Credit (Adjust, Settlement), and Disbursement Mode (Auto, Manual).
- Accrual Preference:** Includes Frequency, Handling of Foreclosure, Acquisition Type, Weak Temporality Basis, and Bearing Product Code.
- Tenor:** Includes Minimum Tenor, Default, Maximum Tenor, and Unit.
- Interest Preference:** Includes Fixed Due Date, Minimum Days for First Installment, Liability Product, Funding Entity, and Capitalize.
- Rollover:** Includes Allow Rollover (Yes/No), Rollover (Auto/Manual), Rollover Type (Custom/Special), Roll By, and User Defined Element Type (Product/Contract).
- Payment Parameters:** Includes Generate Interim Schedules, Interim Maturity Month, Next Installment Days, and Next Installment Percentage.
- Prepayment of Loan:** Includes Account Opening Installment Calculation Type, Account Opening Installment Calculation Type, Payment In Advance, Value Dated Amendment Action, Value Dated Amendment Installment Calculation Type, and Prepayment of Loan (Recomputation Basis, Prepay Equated Monthly Installment Type).

At the bottom, there is a 'Tenor Amount Details' section with a table and 'Ok' and 'Cancel' buttons.

Readjustment Entry Preferences

Credit/Debit

You have to specify the manner in which adjustment entries passed due to back dated adjustments should be handled. The options are:

- **Settlement:** This means that the adjustment is settled directly
- **Adjust:** In this case, the entries are tracked as a receivable (Cr) or a payable (Dr), to be settled later

Disbursement Mode

The following options are available to make a disbursement:

- **Auto** - Choose this option to instruct the system for automatic disbursal of loan. In this case, disbursement happens based on the disbursement schedule maintained for the product. This is defined in the 'Components' button. By default, the system does an auto disbursal.
- **Manual** – Choose this option to manually disburse the loan. Here, disbursement happens on demand. In this case, disbursement schedules need not be maintained for the PRINCIPAL component.

The 'Manual Disbursement' screen is used for this purpose.

Consider a situation where the bank disburses a new loan to a customer. This customer is a primary borrower in an existing loan with the bank. In such a case, the system checks whether any installment is due to be paid by the customer for the other loan (outstanding). If there is an installment due and the payment falls due from the date of disbursement and maximum payment days maintained for the product, then the system displays an error message and stops the disbursement of the new loan.

For instance, if Maximum Payment Days maintained for the product is 3 and the payment date for an existing loan installment is 10 January, 2008, the system will not allow the disbursal for a new loan for the period between 7 January, 2008 and 9 Jan, 2008 for the same customer. .However, if the payment is made on 10 January, 2008, then the system will allow disbursement of new loan to the same customer.

If you try to disburse the new loan after the due date of an existing loan installment which is unpaid, the system will not allow the disbursal of the new loan. and the system will display an error message indicating that a previous installment is overdue.

For details, refer the 'Making Manual Disbursements' chapter of this User Manual.

Accrual Preferences

If IRR computation is applicable for the product that you are defining, you need to specify the accrual preference for the same.

Here you can specify the following details:

Accrual Frequency

Specify the frequency at which IRR accrual should be performed. This can be either Daily or Monthly. Choose the appropriate option from the adjoining drop-down list.

Handling of foreclosure

Specify how foreclosures in respect of the loan contracts under the product, must be handled. You can opt for complete accruals or refund. Choose the appropriate option from the adjoining drop-down list.



In case of pre-closure of the loan (prepayment of the total outstanding amount), the fund interest will also get liquidated and thus the accrual entries will get reversed.

Acquisition Type

Specify the acquisition type for the product. You can specify any of the following options:

- Par
- Par/Discount
- Par/Premium
- Par/Discount/Premium

Refer the section titled 'Processing of IRR application on loans' in this chapter to understand the IRR processing for this module.

Weak Temporality

Check this for products having penal calculation on Principal outstanding as penalty liquidation base and main Interest accrual to stop on start of penal accrual.



Separate products are configured to calculate the penalty on principal outstanding balance or on loan schedule overdue balances.

Weak Temporality shall be checked only for simple bearing loan. In case, it gets checked for any other loan type, system throws error.

Bearing Product

It captures the bearing product code for Financed Unidirecto Discounted product.

Rediscount Loan

Specify the following details:

Liability Product

Specify the liability product to facilitate automatic creation of liability loans.

Funding Entity

Select valid funding entries from this lov field..Funding entries are maintained in Limit Type maintenance. Type used for the maintenance is FUNDING_ENTITY. Value stores the funding entity name and Code captures the CIF of the funding entity. System generates the payment plans according to the holiday treatment preferences defined for asset and liability loan products respectively.

Capitalize

Check this box to indicate that the the first irregular schedule during loan account creation must be capitalized.



The SDE 'NO_OF_PRINCIPAL_SCHS' gets the number of principal schedules (inclusive of principal schedules with zero value). This SDE is used to maintain tenor based UDE rule code. The Liquidation event is maintained with the Capitalization accounting entries. The accounting set-up for Capitalization is as follows:

Debit/Credit	Accounting Role	Amount Tag
Debit	LOAN_ACCOUNT	<COMPONENT>_CAP
Credit	<COMPONENT>_REC	<COMPONENT>_CAP

Rollover

The rollover specifications for a loan account will apply to all loan accounts opened under the product.

Auto/Manual Rollover

You have the option to rollover the loan manually or instruct the system to do an automatic rollover. If you choose the do an auto rollover, then upon maturity of the loan, the system will automatically rollover the account.

The rollover will happen as part of the Rollover Batch executed at BOD or EOD, depending on your requirement.

Rollover Type

The following options are available:

- Custom: This determines if the Rolled over amount will include the unpaid components of the product. The option list provided will display the components relevant to the product from which you can choose the components that are to be rolled over.
- Special: Choose this option to indicate that a special amount is to be rolled over. The amount is captured at the account level when the actual rollover is initiated.

Rollover Comp

This allows the user to select the components that are to be rolled over(only for auto rollover)

Rollover By

This is applicable if you have opted for automatic rollover. You have to specify the unit based on which Rollover will be triggered. The options are:

- Days
- Months
- Quarters
- Semi Annuals
- Years

UDE Type

Here, you need to specify whether UDE Values for the new (rolled over) loan should be defaulted from the product or from the original loan account/contract that is being rolled over.

Schedule Basis

You should also specify the schedule basis for the rolled over loan. The new loan can inherit the schedules from the loan product or you can apply the schedules maintained for the original loan itself.

Collateral Type

Select the collateral from the options given. The options available are as follows:

- Tangible
- Intangible.
- Both



By default, the preference is 'Tangible'.

Account Opening Installment Calculation Type

Account Opening Installment Calculation Type

The Account Opening Installment Calculation Type based on future rates can be:

- Single Installment: A single installment is computed using the future rates.
- Multiple Installments: Multiple EMIs are defined as per the future rates.

Payment in Advance

This check box indicates that the payment of interest and principal happens at the beginning of the schedule. If you check this box, it indicates that payment in advance concept is applicable. Otherwise, it will indicate an arrear.

Installment Preferences

Fixed Due Date

Check this box to indicate that schedule due date for the loan product has to be on a fixed date of the month. If this box is checked then you need to enter 'Due Date On' at loan account level.

The possible values of 'Fixed Due Date' and their impact on payment schedule is as shown below:

- Y (Checked): Field "Due Date On" of loan account will be allowed a value only if "Fixed Due Date" is checked ("Y") at product level. Additionally, if a loan is sanctioned under a customer agreement (Convenio) and "Fixed Due Date" is checked at product level, then value of "Due Date On" will be inherited from customer agreement and same cannot be modified at account level. However, if "Fixed Due Date" is checked ("Y") and "Due Date On" is NULL, then system will default day of disbursement as "Due Date On".
- N (Unchecked): If "Fixed Due Date" is unchecked ("N"), then "Due Date On" will not be allowed to have a value during account creation i.e. manual definition of "Due Date On" will not be permitted.

Minimum Days for First Installment

Specify the minimum number of days between disbursement and first schedule due date. It is not applicable to loans with only bullet schedule. When 'Minimum Days for First Installment' is greater than zero, you need to maintain at product level the following:

- First Payment Schedule formula for interest components.

Recomputation of Amortization Loan at Amendments

You have to indicate whether the tenor of the loan should be reduced or the installment should be recalculated whenever a maturity date, principal change or a rate change is made against an amortized loan.

VAMI Installment Calculation Type

For amendments, if the recomputation basis is 'Change Installment', then the Installment calculation can be:

- Single Installment
- Multiple Installment based on multiple future rates

Prepayment of Loans

The following are the preferences based on which prepayment of amortized loan should be processed:

Recomputation Basis

Recomputation of amortized loans as a result of a prepayment can be based on one of the following:

- Recalculate Installment Amount: In this case the tenor remains constant.
- Recalculate Tenor: Here, the tenor is recomputed while the installment remains constant.

The possible amendments and the recomputation basis are given below:

- For amendment of maturity date of an amortized loan: You can opt to change the tenor, keeping the installment constant..
- For amendment of principal amount: You can affect it either as a Balloon additional amount in the last schedule or apportion it across the installments
- For interest rate change: You can change the tenor keeping the installment constant or vary the EMI and keep the tenor same.

Prepayment Equated Monthly Installment Type

For Prepayment of amortized loans, if you have chosen to recompute the Installment Amount keeping the tenor constant, then the Installment calculation can be one of the following types based on future rates:

- Single Installment: A single installment is computed using the future rates.
- Multiple Installments: Multiple EMIs are defined if a future rate change is known upfront.

While giving the UDE values, effective dates can be given based on which the UDE values will become applicable.

Let us say a loan is sanctioned on 1.1.2008. The rate of interest is as follows:

- UDE value Effective date is 01.11.2007 - 10%
- UDE Value effective date is 01.04.2008 - 11%

If the option chosen is 'Multiple installment' then based on the UDE values, EMI will be calculated depicting a higher EMI from 1.4.2008 at the new rate of interest. So, whenever a prepayment happens it will take into effect the two rates and calculate two different EMIs for these periods.

Prepayment Effective From

You can choose the date on which the prepayment should become effective. The prepayment can come into effect from the value date of the current installment (the day on which the payment is made) or the Next Installment.

Minimum Equated Monthly Installment Amount

You can enter the minimum amount that has to be paid as EMI after recomputing the EMI. The recalculated EMI after prepayment should be greater than this amount.

Minimum Equated Monthly Installment Currency

You can enter the currency of the EMI amount to be paid.

Tenor Preferences

You can set the minimum and maximum tenor limits for a product. You can also specify a standard or a default tenor.

Minimum Tenor

You can fix the minimum tenor of a product. The tenor of the loan account that involves the product should be greater than or equal to the Minimum tenor that you specify.

Maximum Tenor

Likewise, you can also specify the maximum tenor for a product. The tenor of the loan accounts that involve the product should be less than or equal to the Maximum tenor that you specify.

Default Tenor

The 'default tenor' is the tenor that is associated with a loan account involving this product. The value captured here should be greater than the minimum tenor and less than the maximum tenor. You can change the default tenor applied on a loan account during loan processing. However, the new tenor should be within the minimum and maximum tenors maintained for the product.

Units

The tenor details that you specify for a product can be expressed in one of the following units:

- Days
- Months
- Year

Payment Preferences

Specify the following payment preference details:

Next Installment Days

Specify the next installment days. The system will use this parameter to resolve if the payment is to be allocated on current installment when payment is done with recomputation basis 'One Installment'.

Next Installment Percentage

Specify the next installment percentage.

The system will use this parameter to resolve if payment is to be allocated on current installment when payment is done with recomputation basis 'One Installment'.

Interest Preference

Interest Only Period

Specify (in numbers) the duration for which the customer needs to repay only the interest component. This period thereby indicates a holiday period for principal repayment.

Unit

Select the unit of period to be considered for the interest holiday, from the adjoining drop-down list. This list displays the following values:

- Days
- Weeks
- Months
- Years



In Oracle FLEXCUBE, one month is equal to 30 days.

4.6.2.4 Maintaining Amount Tenor Details

You can set your preferences for amount and tenor using 'Amount tenor Maintenance' screen. To invoke this screen, click 'Amount Tenor Details' button on the 'Preferences' screen.

Specify the following details:

Currency

Specify the currency.

Tenor From

Specify the start date of the tenor.

Tenor To

Specify the end date of the tenor.

Min Amount

Specify the minimum amount.

Max Amount

Specify the maximum amount.



Note the following:

- Tenor is maintained in days.
- Tenor amount validation is done only during loan disbursement.

4.6.2.5 Payment in Advance for a Customer Loan

In Oracle FLEXCUBE, if the payment of interest and principal of a customer loan happens at the beginning of the schedule, it is referred to as Payment in Advance. This feature is applicable for both amortized and non-amortized type of loans.

Example for Payment in Advance for Amortized Loan

Consider the following details:

Loan amount	1000000 USD
Loan Period	1 year
Value Date	03-Dec-2007
Maturity Date	03-Dec-2008
Interest Rate	10% per annum

Based on the above details, the payment schedule is as follows:

Schedule No.	Schedule Start Date	Schedule Due Date	Principal Expected	EMI Amount	Interest	Principal
1	3-Dec-2007	3-Dec-2007	912,735.79	87,264.21	0.00	87,264.21
2	3-Dec-2007	3-Jan-2008	833,331.25	87,264.21	7,859.67	79,404.54
3	3-Jan-2008	4-Feb-2008	753,474.43	87,264.21	7,407.39	79,856.82
4	4-Feb-2008	3-Mar-2008	672,070.58	87,264.21	5,860.36	81,403.85
5	3-Mar-2008	3-Apr-2008	590,593.64	87,264.21	5,787.27	81,476.94
6	3-Apr-2008	5-May-2008	508,579.15	87,264.21	5,249.72	82,014.49
7	5-May-2008	3-Jun-2008	425,411.83	87,264.21	4,096.89	83,167.32
8	3-Jun-2008	3-Jul-2008	341,692.72	87,264.21	3,545.10	83,719.11
9	3-Jul-2008	4-Aug-2008	257,465.78	87,264.21	3,037.27	84,226.94
10	4-Aug-2008	3-Sep-2008	172,347.12	87,264.21	2,145.55	85,118.66
11	3-Sep-2008	3-Oct-2008	86,519.14	87,264.21	1,436.23	85,827.98
12	3-Oct-2008	3-Nov-2008	0.00	87,264.17	745.03	86,519.14

Example for Payment in Advance for Term Loan

Consider the following details:

Loan amount	1000000 USD
-------------	-------------

Loan Period	1 year
Value Date	03-Dec-2007
Maturity Date	03-Dec-2008
Interest Rate	10% per annum

Based on the above details, the payment schedule is as follows:

Schedule No.	Schedule Start Date	Schedule Due Date	Principal Expected	Interest	Principal
1	3-Dec-2007	3-Dec-2007	916,666.67	0.00	83,333.33
2	3-Dec-2007	3-Jan-2008	833,333.33	7,893.52	83,333.33
3	3-Jan-2008	4-Feb-2008	750,000.00	7,407.41	83,333.33
4	4-Feb-2008	3-Mar-2008	666,666.67	5,833.33	83,333.33
5	3-Mar-2008	3-Apr-2008	583,333.33	5,740.74	83,333.33
6	3-Apr-2008	5-May-2008	500,000.00	5,185.19	83,333.33
7	5-May-2008	3-Jun-2008	416,666.67	4,027.78	83,333.33
8	3-Jun-2008	3-Jul-2008	333,333.33	3,472.22	83,333.33
9	3-Jul-2008	4-Aug-2008	250,000.00	2,962.96	83,333.33
10	4-Aug-2008	3-Sep-2008	166,666.67	2,083.33	83,333.33
11	3-Sep-2008	3-Oct-2008	83,333.37	1,388.89	83,333.33
12	3-Oct-2008	3-Nov-2008	0	717.59	83,333.37



Note the following:

- For payment in advance, the schedule start date and schedule date of the first schedule will be the value date of the contract.
- There should not be any schedule on the maturity date for the formula types 'Amortized – Payment in Advance' and 'Simple – Payment in Advance'.

During product save, system will validate the following:

- The 'Payment in Advance' check box is checked in the 'Product' screen if the 'Formula Type' is either Amortized - Payment in Advance or Simple- Payment in Advance.
- The 'Payment in Advance' check box in the 'Product' screen is checked only if the formula for Payment in Advance is defined.

- The check box 'Amortized' is checked in the 'Booked Formula' screen if the Formula Type is Amortized - Payment in Advance.
- For a newly created formula type, all the fields in the 'Booked Formula' screen should be non-editable.

During account save, system will validate the following:

- The first due date of the schedule is on the value date of the loan for products with payment in advance schedule.
- At the start of the schedule, the formula for payment in advance is defined, if it is used in the dual formula.
- Bullet schedule is not on the Maturity Date

4.6.2.6 Prepayment Penalty Component

An SDE, 'CUR_PREPAID_AMOUNT' defines the formula of the prepayment penalty component. This indicates the prepaid amount for the current year. This SDE picks its value from CLTB_LIQ_PREPAID table. 'CUR_PNLTY_COLLECTED' is an SDE that indicates the prepayment penalty already collected for the financial year. 'CUR_PRINCIPAL_OUTSTND' is an SDE that defines the formula of the prepayment penalty component. This indicates the principal outstanding amount at the beginning of the current year.

You can use the following formula to base the ceiling percentage on original disbursement amount:

$$\text{CUR_PREPAID_AMOUNT} > (\text{MAX_PREPAID_PCT} * \text{AMOUNT_DISBURSED} / 100)$$

You can use the following formula to base the ceiling percentage on the opening principal outstanding amount for the current year:

$$\text{CUR_PREPAID_AMOUNT} > (\text{MAX_PREPAID_PCT} * \text{CUR_PRIN_OUTSTND} / 100)$$

The result of the above formulae is as follows:

$$(\text{CUR_PREPAID_AMOUNT} - (\text{MAX_PREPAID_PCT} * \text{AMOUNT_DISBURSED} / 100)) * (\text{PREPAY_RATE} / 100) - (\text{CUR_PNLTY_COLLECTED})$$

After the collection of pre-payment penalty, if there is any additional disbursement to the customer which leads to the increase in limit of the prepaid amount, system will not pass on the benefits back to the customer. However, for subsequent calculations the disbursed amount and the pre-payment penalty paid till date for the financial year is considered based on the formula defined. If SDE 'CUR_PRINCIPAL_OUTSTND' is the basis for calculation, the additional disbursement will not be considered in calculation for current year. It is used for calculation only from next year onwards.

An SDE, 'MIN_AMT_SCHODUE' defines the formula for outstanding Minimum Amount Due Amount for the latest billing period and will be available after the (pay by date + grace days). This amount will be (Minimum Amount Due minus amount paid in the billing period). If this value is negative, there will be no penal computed.

An SDE, 'PAY_BY_SCHODUE' defines the formula for outstanding amount as of a particular date for the latest billing period. This will be available after the (pay by date + grace days). This amount will be (Loan outstanding amount as of billing date minus amount paid in the billing period).



The penalty can be setup on MAIN_INT component using the above two SDEs and available support for rate, period and computation method.

As the minimum amount due is calculated for the billing period, the customer is expected to pay the minimum amount due on or before the pay by date. The system will apply the penalty for the following cases:

- Minimum due not paid
- Minimum due paid partially

In both the cases, the system will calculate the penalty from the billing date. In case of non-payment on the payment date (Due Date), the system will calculate the penalty from the billing date, for instance, if the billing date is 01-Feb-2009 and the payment date is 10-Feb-2009, then on the payment date if the payment is not received from customer then the overdue penalty interest will be calculated from 01-Feb-2009.

The sum of amount paid by the customer between the billing date and the pay by date will be considered to check if the customer has paid the minimum amount due.

Example:

Let us assume that the Minimum amount due to be paid is 1500 and the billing date is 31-Jan-2009 and the pay by date is 10-Feb-2009. And the customer has made the payments as follows:

Date	Amount Paid
02-Feb-2009	500
05-Feb-2009	700
10-Feb-2009	600

Based on the above payments made, the sum of amount paid by the customer between the billing date and the pay by date is 1800, which is greater than the minimum amount due. Hence the system will consider this condition as minimum amount paid.

4.6.2.7 Calculating NPV Difference

In case of early repayment of loans (partial or full), the following method is followed for penalty calculation:

Let us assume that, X% of the total loan amount can be paid in one year. Penalty is applicable on anything above X%. This penalty is the difference between the NPV of existing cash flows of the loan being paid and the NPV of the cash flows post-prepayment application. Both the NPVs are based on current yield curve i.e. yield rate supplied. This penalty can also be based on percentage of amount being overpaid.

A UDE, 'YIELD_RATE' is used for the calculation of penalty based on NPV of current cash flows of loan and NPV of new cash flows post-prepayment.

An SDE, XNPV computes the NPV value based on the current cash flows and future cash flows (i.e. post-prepayment application) respectively.

The formula for calculating NPV is as follows:

PREPAID_AMOUNT > 0

The result of the formula is as follows:

@XNPVDIFF (XNPV, YIELD_RATE)

Result of the formula can be some percentage of the difference of the NPV as shown below:

@XNPVDIFF (XNPV, YIELD_RATE) * 0.05

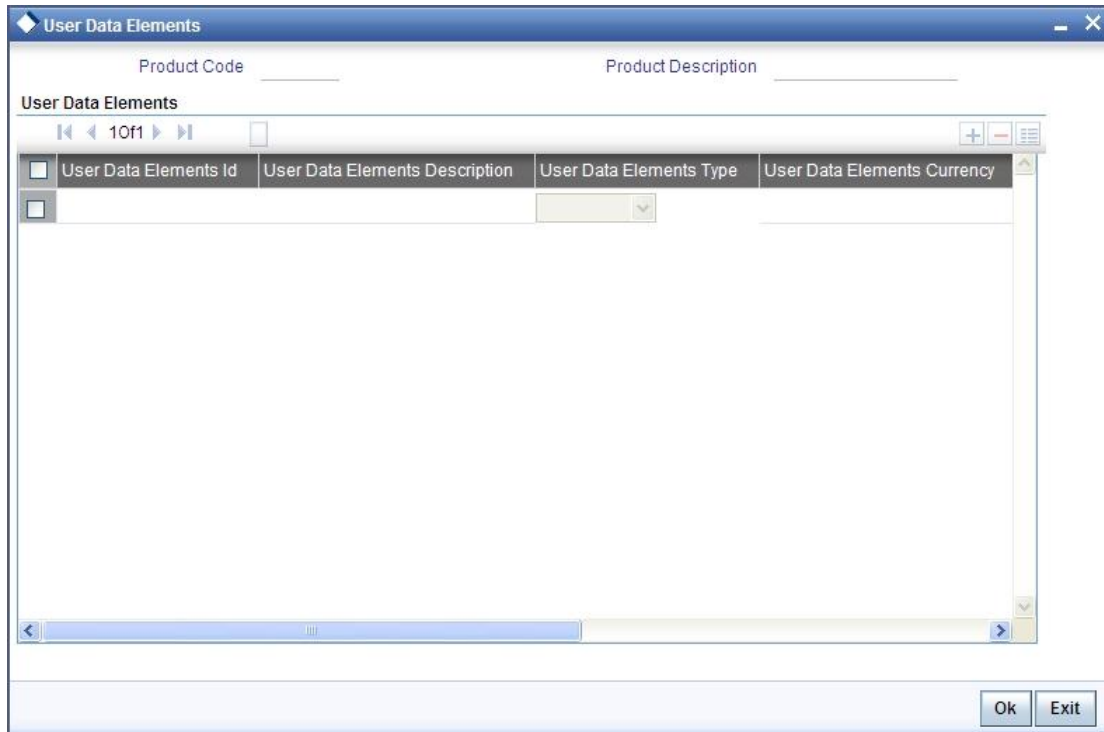
The computation of pre-payment penalty is done by the system at the time of allocate. Internally system applies the pre-payment and gets the future schedules. Subsequently, based on the formula defined for XNPVDIFF, system finds the difference between the NPV based on the yield rate and populates the same against the pre-payment penalty component.



Penalty based on NPV is supported by the system only when product is amortized.

4.6.3 Specifying User Data Elements

You can capture the user data elements details of a product by clicking the 'User Data Elements' button. The screen is displayed below:



To define a User Data Element (UDE), you have to specify the following details:

User Data Elements ID and Description

Data elements like the rate at which interest has to be applied, the tier structure based on which interest needs to be computed etc. are called User Data Elements (UDEs). These are, in effect, elements for which you can capture the values. You have to specify a unique ID to identify the UDE in the system. For instance, you can have a UDE 'SUBSIDY_RATE' to indicate the rate to be used for calculating the subsidy interest amount. The UDE maintained here will be available for defining product rules.

You can also provide a brief description of the UDE being defined.

User Data Elements Type

UDE Type will describe the nature of the UDE. An UDE can fall into one the following types:

- Amount
- Number
- Rate
- Rate Code

User Data Elements Currency

If the UDE type is 'Amount', you should specify the currency of the UDE. The currencies maintained in the 'Currency Definition' screen are available in the option-list provided. You can select a currency from this list.

Minimum User Data Elements

You need to specify the floor limit for the UDE value. This means that the actual UDE value cannot be less than the rate specified here. Note that this amount has to be less than the maximum UDE value. The system will throw an error message if the minimum UDE value is greater than the maximum UDE value.

This field is used to capture minimum EA value of a UDE. If the resolved value of UDE, expressed as effective annual rate is less than the parameterized value, then system will default Minimum User Data Elements. A message will also be displayed as UDE value is defaulted to Minimum User Data Value for UDE id- INT_RATE.

Maximum User Data Elements

You need to specify the ceiling limit for the UDE value. This means that the actual UDE value cannot be greater than the rate specified here. Note that this amount has to be greater than the minimum UDE value. The system will throw an error message if this value is less than the minimum UDE value.

The UDE names alone are captured here. To capture the values for the UDEs defined for a product, you have to use the 'UDE Values' screen.

Refer the section titled 'Providing UDE Values' in the 'Maintenances and Operations' chapter of this User Manual for more details.

Rate Change Restricted

On checking this option, the system validates if the changes done to the UDE is done during rate plan change window. If this field is unchecked, then the system will not put any restriction on the amendment of the UDE based on rate plan change window.



System will validate that either all the parameters for rate plan change is input or every parameter is null at the time of product input/amendment.

Spread Treatment for EA

You can select any of the following methods from the adjoining drop down list:-

- 1. Conventional method to calculate EA
 - $(1 + \text{Reference rate(DTF)\%E.A.}) * (1 + \text{SpreadRate\%E.A.}) - 1$
- 2. Addition method to calculate EA
 - Add Spread rate (E.A) to Reference rate(E.A) to fetch the resolved EA value for a UDE. This is used primarily for Rediscounted Loan Product.

Conventional Method is the default Spread Treatment.

Rounding Rule

Select the rounding rule from the adjoining drop down list.

- Round Up
- Round Down
- Round Near – This is the default value.

Based on the rounding preference maintained for the UDE, the system will display the corresponding rounded resolved value.

Rounding Unit

Specify the rounding unit.

4.6.4 Specify Components Details

You can define the features of the components in the 'Components' screen. Invoke this screen by clicking 'Components' button. The following screen displays:

The screenshot displays the 'Components' configuration window, which is organized into several sections:

- Class Code:** Includes fields for Class Code, Class Description (with a 'Default From Class' button), and Component Details (Component, Description, Currency, Calculation Type, and an 'Include in EMI' checkbox).
- Moratorium:** Fields for Period and Period Unit.
- Component Attributes:** Includes checkboxes for 'Special Component', 'Debit' (selected) vs 'Credit', and 'Formula Type'.
- Component Defaults:** Fields for Days in Month, Days in Year, Grace Days, and checkboxes for 'Verify Funds', 'Interest Method Default From Currency Definition', 'Internal Rate of Return Applicable', 'GMF Component', and 'IVA Component'.
- Accruals/Provisioning:** Includes checkboxes for 'Main Component', 'Interest Posting required', 'Propagation Required', 'Compound on overdue', and 'Accrual Required', along with 'Liquidation Mode' (set to 'Auto') and 'Include for Base Rate Calculation'.
- Prepayment Threshold:** Fields for Amount and Currency.
- Insurance Details:** Includes 'Continue Post Maturity Until Write-Off' checkbox, 'Insurance Type', and 'Insurance Termination Days'.
- Rate Conversion Preference:** Fields for 'Days in year for rate conversion' (set to 'Actual'), 'Rate Period' (set to 'Actual'), and 'Refund Basis Component'.
- Schedule:** A table with columns: Sequence Number, Schedule type, Start Reference, Frequency Unit, Frequency, Start Day, Start Date, Start Month, and Due. The first row is checked.
- Navigation:** Buttons for 'Book Formulae', 'Intermediate Formulae', 'Moratorium Formulae', and 'Installment Status' are at the bottom.

Specify the following details:

Class Code

Select a class code from the adjoining option list. The option list displays all the valid classes maintained in the system. One class can have multiple components defined. The system attaches all the components to the product on clicking 'Default from Class' button

On authorizing a component class, system will create the required accounting roles and amount tags.

Component Details

The basic information for a component is specified here. This includes the following:

Component

The components defined for the selected class are available here. You can scroll and select an appropriate component. Subsequently, you have to define the parameters for these components.

For Commitment products, the MAIN_INT component is used for defining periodic fees on the unutilized commitment amount.

Currency

Associate the component with a currency. The component is expressed in the currency selected here. You can select the currency of your choice from the option list provided.



If you do not specify any, system defaults the account currency. Based on the value of this field system calculates the exact amount in this currency. If it is different from the account currency then system calculates the amount using 'Rate Preferences' you have provided. If the account that has to be debited with this amount is denominated in a different currency, system will calculate the settlement amount using standard MID rate. You can modify this field on account level.

Calculation Type

Specify the manner in which the component should be calculated and liquidated. You can choose one of the following options (the applicable 'Component Type' is also provided):

- Formula with schedule (Component Type - Interest)
- Formula without schedule (Charge)
- Penal Interest
- Prepayment Penalty
- Discount
- Schedule without formula (Principal)
- No schedule No formula (Ad Hoc Charges)

- Penalty Charges
- Margin
- Savings



Note the following:

- 'Penalty Charges' are calculated only once for a 'Penal Basis' schedule. 'Penal Basis' is explained later in this user manual.
- The component 'Savings' is used for interest calculation on the value dated balance of the savings account. This component needs to be defined as simple interest component with its basis element as 'CUSTAC_BAL', and rate to use as 'INTEREST_RATE'. Formula for this component is as shown:

@SIMPLE (CUSTAC_BAL, (INTEREST_RATE), DAYS, YEAR, COMPOUND_VALUE)

A component of the type Ad hoc can be set up. Since ad hoc charges cannot be computed upfront or scheduled, select this field as 'No Schedule No Formula'.

For penalty component, Penal Interest is selected.

Include in EMI

Check this box to indicate that the selected component should be included in EMI calculation.

Main Component

This option is used to designate a component as the 'Main' Interest component. If you enable the 'Main Component' option for a particular component, the system treats this component as the main component. Also, you are allowed to define the amortization schedules only for this component.

'Principal' is an implicit component that is automatically created for the product

Capitalization

You can indicate whether capitalization is required for all the schedules for various component of the loan. At anytime, the outstanding interest will be capitalized on the schedule date at the rate prevalent on that day. You can opt for capitalization at the component level or opt for capitalization/non capitalization for a particular schedule at the 'Schedule' level.

You could have more than one type of schedules applicable on a product. In such a case, you can designate one as the capitalized and the other as un-capitalized schedule.

Interest Posting Required

Check this option if you require interest posting.

Compound On Overdue

Check this box to compound the interest/penalty interest when it is overdue.



Note the following:

- This check box can be checked only for a single interest and penalty components.
- If you check this box, then the system compounds the overdue interest or penalty computed till the last compounding date, to the principal.
- If this check box is checked and a component schedule is overdue, then the system triggers re-computation on the compounding dates and compound the overdue/penal interest on that date.

Example

Example of an overdue schedule being compounded:

Loan Amount	20000
Loan Value Date	31-Aug-07
Maturity Date	30-Nov-2008
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly
Interest Method	Actual/360
VAMI Re-computation	Balloon Payment
Unpaid Installment	30-Nov-2007

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
		1.0000000000	1.0000000000					20000.00
30-Nov-07	91	1.0252777777 7778000000	1.0252777777 7778000000	1.1053092206 7044000000	4312.19	509.83	3802.36	16200.76
30-Sep-07	30					166.6666 667		

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
31-Oct-07	31					173.6574 074		
30-Nov-07	30					169.5027 006		
29-Feb-08	91	1.02527 77777 777800 0000	1.051 1945 216 0494 0000 00	1.07835045 91 9067000000	4312.1 9	522.82	3789.37	12408.27
31-Dec-07	31					176.6124 25		
31-Jan-08	31					178.1332 542		
29-Feb-08	29					168.0757 485		
31-May-08	92	1.02555 55555 555600 0000	1.078 0583 816 0151 0000 00	1.05147932 09 8765000000	4312.1 9	542.09	3770.1	8638.17
31-Mar-08	31					181.1144 861		
30-Apr-08	30					176.7813 707		
31-May-08	31					184.1963 671		
31-Aug-08	92	1.02555 55555 555600 0000	1.105 6087 624 6466 0000 00	1.02527777 77 7778000000	4312.1 9	444.92	3867.27	4770.90
30-Jun-08	30					143.8545 833		
31-Jul-08	31					149.8884 839		

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
31-Aug-08	31					151.1791903		
30-Nov-08	91	1.025277777 777800000	1.133556095 0714000000	1.00000000000 0000000000	5112.36	341.46	4770.90	0.00
30-Sep-08	30					111.6273333		
31-Oct-08	31					116.3094798		
30-Nov-08	30					113.5268068		
				5.2607163204 2076000000				

Example of a partially overdue schedule being compounded:

Loan Amount	20000
Loan Value Date	31-Aug-2007
Maturity Date	30-Nov-2008
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly
Interest Method	Actual/360
VAMI Re-computation	Balloon Payment
Partially Paid Installment	29-Feb-2008
Partially Paid Amount	200

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
---------------	------	------------	------------	------------------	-----	----------	-----------	--------------------

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
		1.00000 00000 000000 0000	1.000 0000 000 0000 0000 00					20000.00
30-Nov-07	91	1.02527 77777 777800 0000	1.025 2777 777 7778 0000 00	1.10530922 06 7044000000	4312. 19	509.83	3802.36	16197.64
30-Sep-07	30					166.6666 667		
31-Oct-07	31					173.6574 074		
30-Nov-07	30					169.5027 006		
29-Feb-08	91	1.02527 77777 777800 0000	1.051 1945 216 0494 0000 00	1.07835045 91 9067000000	4312. 19	412.9	3899.29	12298.35
31-Dec-07	31					139.4796 778		
31-Jan-08	31					140.6807 528		
29-Feb-08	29					132.7378 368		
31-May-08	92	1.02555 55555 555600 0000	1.078 0583 816 0151 0000 00	1.05147932 09 8765000000	4312. 19	422.96	3889.23	8409.12
31-Mar-08	31					141.3129 833		

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
30-Apr-08	30					137.9321082		
31-May-08	31					143.7175938		
31-Aug-08	92	1.0255555555 555600000	1.1056087624 6466000000	1.0252777777 7778000000	4312.19	322.72	3989.47	4419.65
30-Jun-08	30					104.34425		
31-Jul-08	31					108.7209116		
31-Aug-08	31					109.6571194		
30-Nov-08	91	1.0252777777 777800000	1.133556095 0714000000	1.0000000000 0000000000	4637.14	217.49	4419.65	0.00
30-Sep-08	30					71.09866667		
31-Oct-08	31					74.08086074		
30-Nov-08	30					72.30849606		
				5.2607163204 2076000000				

Component Type

The system displays the component type maintained in the 'Product Component Class' screen, but this can be modified. Specify the type of the component. The adjoining option list displays all the relevant component types. You can choose the appropriate one.

It defines the manner in which the component should be classified for reporting/accounting purposes. A component can be of one of the following types:

- Adhoc Charges
- Balloon principal
- Charge
- Deposit
- Discount
- Fee Accrual
- Funding Interest
- Insurance
- Insurance (Islamic)
- Interest
- Late Payment Fee
- Margin Basis Drawdown
- Margin Basis Facility
- Margin Basis Tranche
- Off-Balance Sheet
- Provisioning
- Refund
- Reimbursement
- Savings
- Tax



The fund interest component gets liquidated on schedule even if the customer does not pay the other components.

During EOD, provisioning event is triggered for all loan accounts linked to a customer whenever you modify the credit rating of a customer at the customer level. Provisioning amount is calculated based on the formula maintained for the Provisioning Component at the Product level. During EOD batch, PROV event is picked and processed for all the loan accounts for which PROV event is to be triggered. As a part of end of day batch accounting entries are passed for the calculated provision amount.

Even though the credit rating changes at customer level, the Provision event will not be triggered for accounts belonging to that CL product level, if the following maintenances are not done:

- Provisioning component maintenance at product level
- Provisioning event (PROV) maintenance at product level

- If Accrual frequency is daily at product level

Propagation is required

Check this option to indicate that the interest amount collected from the borrower should be passed on to participants.

Liquidation Mode

You can specify the mode of liquidation of the component from the drop-down list. The following options are available for selection:

- Auto
- Manual



This is applicable only if 'Liquidation mode' is selected as 'Component' at the product preference level.

Include for Base Rate Calculation

Check this box to indicate that the component has to be considered in base rate computation. This field is enabled for commission and charge components only.

Adhoc Charge Category

The system displays the adhoc charge category maintained in the 'Product Component Class' screen, but this can be modified. This field is enabled when 'Adhoc Charges' is selected as the component type. Select the adhoc charge category from the adjoining drop-down list. The list displays the following values:

- Guarantor Recovery
- Collection Agency
- Deferred Settlement
- Deferred Charge

The 'Guarantor Recovery' adhoc charge is used to update the National Collateral Fund due, calculated based on payment amount.

The 'Deferred Settlement' adhoc charge is used to book the adhoc charge sum of all components where settlement mode is selected as 'First Installment'. The 'Deferred Charge' adhoc charge is used to book the adhoc charge sum of all loan disbursement level charges where settlement mode is selected as 'First Installment'.

Rate Period

Select the rate period from the adjoining list of values:

- Actual
- Daily
- Weekly
- Fortnightly
- Monthly
- Quarterly
- Half Yearly
- Yearly

Actual is the default value. If the 'Rate Conversion Preference' i.e. 'Rate Period' is 'Actual', then the number of days, are calculated as per the days in month parameter at 'Loan Account'.

Days in year

Specify the days in year from the adjoining drop down list.

For Commission assumed by Provider ,three charge components(i.e.charge component without schedule) with formula is configured which is attached to the disbursement event.

For Commission assumed by Buyer,three Charge Components(Charge component with schedule) with formula is configured on product level;

- Commission and IVA and GMF are calculated and collected as part of installment payment.
- System creates two schedules, one each for the "Commission" and "IVA" and "GMF", which will have Liquidation Priority over other components.
- The due date for both these components is "Disbursement Date".
- Whenever a payment is made, these components are collected from the Buyer, and then settlement against other components is done.

Component Attributes

The component attributes include the following:

Periodicity

The periodicity of the component can be either:

- Daily

- Periodic

If you choose the periodicity as 'Daily', any changes to UDE and SDE values will result in recalculation of the component. The recalculation happens as and when a change in value occurs. If maintained as 'Periodic', the values and calculations of the elements will be refreshed on the last day of the period.

In case of a product having main and subsidy interest components, the schedule periodicity needs to be identical for both components.

Special Component

You can define a component as a 'Special Interest Component'. You can override such components at the account level. You may need to apply a special interest component as a result of customer negotiations. A special interest component is specified as an amount.

Formula Type

You can specify the type of formula to be used for calculating the component. This formula is applied for the component across all its' schedules. It can be one of the following:

- User Defined: This can also include a combination of standard formulae for different schedules of the component or can have a completely user defined formula.
- Standard
 - Simple
 - Amortized Rule of 78
 - Discounted
 - Amortized Reducing
 - True Discounted
 - Rate Only
 - Amortized Payment in Advance
 - Simple Payment in Advance
 - Discounted Schedules
- Provision – You can use this formula type for defining a provisioning component. You need to use the following component and calculation types:
 - Component Type - Provision
 - Calculation Type - Formula without schedule
 - Formula Type - Provision

You can choose the option 'Amortized Reducing' for subsidy component.



Note the following:

- This is not applicable for the 'PRINCIPAL' component

- For a commitment product, the formula type cannot be 'Amortized', 'Discounted' or 'Simple'
- To create a discounted loan you can select the formulae type as Discounted for the main interest component(MAIN_INT).
- To create a bearing loan select the formulae type as "Simple" . Three Charge Components (Charge component without schedule) with formula will be configured on product level; which will be attached to the disbursement event.
- The Commission Collection Mode which will be under Account Details -> Disbursement Settlement Mode-> Commission and IVA and GMF - should be opted with either "Loan Account" or "CASA" . If "Loan Account" then GMF will be collected with net disbursement and if 'CASA', GMF will be collected in CASA.

The formula for penal component will be part of the SDE namely PENAL_COMPOUND

Formula Type will be selected as "User Defined". This will be required to meet re-computation basis requirement and PENAL_COMPOUND will maintained in Formula expression.

SDE Logic will have the following formula which will be used for calculate and booking of penalty interest:

$$\text{Penalty Intt.} = ((\text{PENALTY LIQUIDATION BASIS} * (\text{PENAL RATE}) / (\text{YEAR BASIS})) * ((1 - ((1 + (\text{PENAL RATE}) / (\text{YEAR BASIS}))^{\text{DAYS}})) / (- (\text{PENAL RATE}) / (\text{YEAR BASIS}))))$$

Characteristics of formula variables are explained below:

Penalty Liquidation Base:

- Case 1:- When 'Weak Temporality' is checked and "Include in Penal Liquidation base" is checked for 'PRINCIPAL'
 - SDE PENAL_COMPOUND will consider PRINCIPAL OUSTANDING as the penalty liquidation Base
 - Validation will be done so that when 'Weak Temporality' is checked then "Include in Penal Liquidation base" is checked only for the 'PRINCIPAL'
- Case 2:- When 'Weak Temporality' is not checked and "Include in Penal Liquidation base" is checked for 'PRINCIPAL'
 - SDE PENAL_COMPOUND will consider PRINCIPAL SCHODUE to be the penal liquidation base.
- Case 3:- When 'Weak Temporality' is not checked and "Include in Penal Liquidation base" is checked for multiple component
 - SDE PENAL_COMPOUND will consider the schedules overdue balance as penal liquidation base for the components for which "Include in Penal Liquidation base" is checked

Now, if “Include in Penal Liquidation base” is checked of principal and main interest component, then SDE PENAL_COMPOUND will have the following formula in SDE logic:

$$\text{Penalty Intt.} = (((\text{PRINCIPAL_SCHODUE} + \text{MAIN_INT_SCHODUE}) * (\text{PENAL RATE}) / (\text{YEAR BASIS})) * ((1 - ((1 + (\text{PENAL RATE}) / (\text{YEAR BASIS}))^{\text{DAYS}})) / (-(\text{PENAL RATE}) / (\text{YEAR BASIS}))))$$

Similarly, if Weak temporality is checked and “Include in Penal Liquidation base” is checked for principal then following formula will be constructed by system internally to derive penalty interest value and same value will be returned as PENAL_COMPOUND SDE value:.

$$\text{Penalty Intt.} = (((\text{PRINCIPAL_OUTSTAND}) * (\text{PENAL RATE}) / (\text{YEAR BASIS})) * ((1 - ((1 + (\text{PENAL RATE}) / (\text{YEAR BASIS}))^{\text{DAYS}})) / (-(\text{PENAL RATE}) / (\text{YEAR BASIS}))))$$

- Penal Rate: Penalty interest rate will be obtained using penalty rate code defined at the product class level and penal rate will be maintained in EA in floating rate maintenance. Penal rate in EA will be converted to annual daily bearing rate and PENAL_COMPOUND will have the above logic to use the annual daily bearing rate as penalty rate for penal calculation.
- Year Basis: Days in Year for the penalty component and same will be obtained as ‘Year Basis’ for penal calculation.
- Days: It will be days between the penal schedule start and end date and same will be derived by considering ‘Days In Month’ of penal component.

Liquidation Group

By default, the system will display the value maintained in the ‘Product Component Class’ screen, but this can be modified. Specify the liquidation group ID that needs to be availed.

During allocation processing, the system checks the Liquidation Group ID maintained for the components in the liquidation order. For each component being processed, all the components under the same Liquidation Group ID will be considered before moving to next component in liquidation order.

Include in Penal Liquidation base


It indicates the component Overdue/outstanding amount as Penal Liquidation base based on Weak temporality flag for a loan.

Penal Basis

You may want to allot the penalty to the recovery of certain components. Once a component is overdue, an appropriate penalty is applied. Therefore, you need to identify the component, which on becoming overdue will trigger the penalty computation. However, the system will calculate the penalty on the component you select in the ‘Basis Element’ field.

For VAT component, you need to set Penal Basis as the underlying charge component. The system validates if the penal basis component is a charge other than the penal basis and that both these charges are attached to the same event. The SDE ‘<BASIS_COMP>_CURVAL’ indicates the amount due for the penal basis component.

Whenever the event associated with the penal basis and VAT component charge is triggered, the penal basis component is calculated first, after which VAT component is calculated.

 For commitment products 'PRINCIPAL' is not used for penal basis and for basis amount. In case of EMI products, installment amount is used for calculating the penalty.

In penalty component, this attribute triggers penalty calculation when a payment schedule of this component is overdue. Penal basis is TOTAL when penalty calculation is based on multiple components. Additionally, components that are considered as the basis for penal calculation, have their component name selected as penal basis in their respective component definition.

Balance Type

Identify the nature of the balance that the component would hold. The following are the options available:


- Debit
- Credit

For instance, for a loan product, the 'Principal' component is expected to have a 'Debit' balance.

Basis Element

If you select the 'Standard' formula type, you have to specify the component upon which calculation should be performed. The component is denoted by an SDE (e.g. PRICIPAL_EXPECTED) and you can select it from the option list provided. For an overdue/penalty component, this is the element on which penalty is applied.


This is not applicable if 'Formula Type' is 'User Defined'

 If you want to use an SDE which is not listed as Basis element but exists in the system as SDE, then you should maintain a 'User Defined' formula instead of a Standard Formula.

Rate to Use

Here, you need to select the UDE which will define the rate to be used for computing the component. The value of the selected UDE is picked up as per the maintenance in the 'UDE Values' screen. For instance, you need to choose the option 'SUBSIDY_RATE' for a subsidy interest component.

This is applicable only for components defined with 'Standard' Formula Type

 The 'Basis Element' for computing fund interest will always be 'Principal Outstanding' and the 'Formula Type' will be 'Simple', independent of the main interest component. The liquidation mode for funding component will always be 'Auto', independent of the Product / Account Liquidation mode.

Moratorium Preferences

The following parameters have to be specified:

Moratorium Period and Period Units

If you wish to provide a moratorium on a loan, you need to mention the moratorium period and moratorium unit for each component. This refers to a repayment holiday at the beginning of the loan.

When you input a loan in Oracle FLEXCUBE, the repayment start date of each component will be defaulted based on your specifications here. The moratorium unit should be in terms of:

- Days
- Months
- Years

Component Defaults

For computing interest, you have to specify the following:

Days in Year

You can specify the number of days to be considered for a year during computation of a particular component. This could be:

- 360: This means that only 360 days will be considered irrespective of the actual number of calendar days
- 365: In this case, leap and non leap year will be 365
- Actual: In this case, leap year will be 366 and non leap year will be 365

This value corresponds to the denominator part of the interest method

Same attributes for penalty component.

Days in Month

Here, you have to specify the number of days to be considered in a month for component computation. The options available are:

- Actual: This implies that the actual number of days is considered for calculation. For instance, 31 days in January, 28 days in February (for a non-leap year), 29 days in February (for a leap year) and so on
- 30 (EURO): In this case, 30 days is considered for all months including February, irrespective of leap or non-leap year

- 30 (US): This means that only 30 days is to be considered for interest calculation for all months except February where the actual number of days is considered i.e. 28 or 29 depending on leap or non-leap year

The value selected here corresponds to the Numerator part of the Interest method

Here, the field 'Days in Month' is mapped to the parameter 'Period Factor'.

- We can select days in month as 'Actual' to achieve calendar days.
- We can select days in month as '30(Euro)' to achieve commercial days.

The value selected at the product level is defaulted to the field 'Days in Month' at the account level.

For Penalty Component the following options are available-

- Actual
- 30(Euro)
- 30-US

It is Actual when interest factor is Calendar and 30(Euro) when interest factor is commercial days.

Interest Method Default from Currency Definition

You also have the option to use the interest method defined for the currency of the component. In this case, the interest method defined in the 'Currency Definition' screen (for the component currency) will become applicable to the loan. By default, this option is checked.

If you uncheck this field, the 'Days in Month' will be fetched from the Loan account and not from the product level for computation.

Grace Days

The grace days refer to the period after the repayment date, within which the penalty interest (if one has been defined for the product) will not be applied, even if the repayment is made after the due date. This period is defined as a specific number of days and will begin from the date the repayment becomes due. However, if the customer fails to repay even within the grace period, penalty will be applied and calculated from the repayment due date.

However, in case a penalty charge is defined for a penal basis component under a retail lending product, the 'Grace Days' is defined as part of itself. The schedule due date for the penalty charge is then computed by adding the 'Grace Days' to the corresponding schedule due date of the penal basis component.

Internal Rate of Return Applicable

Check this option to indicate that the chosen component needs to be considered for Internal Rate of Return (IRR) calculation. This option is applicable to interest, charge, adhoc charge, prepayment penalty, penalty and upfront fee components.



This option should not be checked for Commitment products.

If a charge component is to be considered for IRR, the charge will be accrued using the FACR (Upfront Fee Accrual) batch.

The following components cannot be considered for IRR calculation:

- Off-balance sheet component
- Provision component

If you check this option, then you have to check the 'Accrual Required' option.

For bearing type of component formula, you can check this option only if the 'Accrual Required' option is checked.

For discounted or true discounted types of component formula, this option will be enabled irrespective of the whether the 'Accrual Required' option is checked or not. If this option is checked and 'Accrual Required' is not, the discounted component will be considered as a part of the total discount to be accrued for Net Present Value (NPV) computation. If both 'Accrual Required' and 'IRR Applicable' are checked, then discounted interest will be considered for IRR computation.

GMF Component

Check this box to indicate the component is a GMF component.

IVA Component

Check this box to indicate the component is a IVA component.

Parent Charge Component

Specify the parent charge component. The adjoining option list displays all the component names maintained in the system. You can choose the appropriate one. This is applicable only for the IVA and GMF component.

Verify Funds

You can indicate whether the system should verify the availability of sufficient funds in the customer account before doing auto liquidation of the component.

Accruals/Provisioning

To perform accrual of the components, you have to capture the following details:

Accrual Required

You can use this option to indicate that the component has to be accrued and provisioning is applicable. For the components that have been marked for accrual, you need to specify the accrual frequency, start month and start date in the respective fields.

If the 'Calculation Type' is 'Penalty Charges' for a component, the 'Accrual Required' option is disabled.



If you maintain a simple interest type product you do not need a 'Bullet' schedule. However, in case of an amortizing product "Bullet" schedule has to be maintained separately

Frequency

If you have opted for accrual and provisioning for the components, you have to specify the frequency for the same. The frequency can be one of the following:

- Daily
- Monthly
- Quarterly
- Half yearly
- Yearly

Start Month

If you set the accrual/provisioning frequency as quarterly, half yearly or yearly, you have to specify the month in which the *first* accrual has to begin, besides the date.

Start Date

In the case of monthly, quarterly, half yearly or yearly frequencies, you should specify the date on which the accrual/provisioning has to be done. For example, if you specify the date as '30', accruals will be carried out on the 30th of the month, according to the frequency that you have defined.

Accrual on Start Date

Check this box to enable accrual of full amount on schedule date. This is enabled only when the accrual frequency is set to Daily at component level.

Prepayment Threshold

This includes the threshold amount and currency, explained below:

Amount

Here, you can maintain the minimum limit for allowing prepayment of schedules. If the residual amount after prepayment against a schedule is less than the threshold amount you specify here, the system will disallow the prepayment.

Currency

If you specify the threshold amount, you also have to indicate the currency in which the amount should be expressed. You can select the currency from the option-list provided.

Insurance Details

These fields get enabled only for component class 'Insurance'. Specify the following insurance details:

Continue Post Maturity Until Write-Off

By default, the system will display the preference maintained in the 'Product Component Class' screen, but this can be modified. Check this box to indicate that the system builds insurance schedules post maturity progressively until write-off or loan is liquidated.

Insurance Type

By default, the system will display the value maintained in the 'Product Component Class' screen, but this can be modified. Select the insurance type from the adjoining drop-down list. The list displays the following values:

- Life
- Vehicle/Machinery
- Unemployment
- National Collateral Fund

Insurance Termination Days

By default, the system will display the value maintained in the 'Product Component Class' screen, but this can be modified. Specify the number of overdue days after which the loan will stop accrual of future installments, i.e. the current schedule insurance premium will be collected as it is already accrued and it will be '0' for all the future schedules except current running schedule.

Rate Conversion Preference

Specify the following rate conversion detail:

Days in year for rate conversion

By default, the system displays 'Actual' as the days in a year for rate conversion, but this can be modified. Select the days in a year for rate conversion from the adjoining drop-down list. The list displays the following values:

- Actual
- 360
- 365

Refund Basis Component

By default, the system will display the value maintained in the 'Product Component Class' screen, but this can be modified. This field is enabled when 'Refund' is selected as the component type. Specify the discounted component which will be the basis for calculation of Refund Amount. The adjoining option list displays all the relevant components maintained in the system. You can choose the appropriate one.

Schedule Preferences

In the 'Component' section of the screen, you need to maintain the applicable schedule details for each component:

Sequence Number

You can define more than one schedule for a component. The sequence number determines the order in which the individual schedule should be applied on a component. For instance, you can define a schedule structure consisting of a moratorium schedule and a normal schedule. The moratorium schedule, if defined for a component, should necessarily be the first schedule. You cannot have moratorium schedules in between normal schedules.

Type

This is the kind of schedule you want to define. The options are:

- **Payment:** This is used to define a repayment schedule. You can capitalize a payment schedule. If the 'Capitalized' option (under Component Definition) is checked, the 'Capitalized' option at the schedule level will also be checked for payment schedules. You can, however, uncheck/check this option for a schedule.
- **Disbursement:** You can maintain a disbursement schedule for loan disbursement if the 'Disbursement Mode' is automatic (this is maintained on the 'Preferences' button). For auto disbursement, you have to maintain at least one disbursement schedule.
- **Rate Revision schedules:** This will capture the schedule at which the rates applicable to the component should be revised.

Start Reference

This is used to capture the reference to arrive at the due date of the schedule. The options are:

- **Calendar:** If you select this option, you should also specify the 'Start Date' for the schedule. For example, if an account is created on 15th Sept with a 'Monthly' schedule frequency and the Start Date is 1st, then the schedule due dates would be 1st Oct, 1st Nov and so on.
- **Value Date:** If you select value date, the schedule due dates will be based on the Value Date of the account. For instance, if an account is created on 15th Sept and the schedule frequency is 'Monthly', then the schedule due date would be 15th October, 15th Nov and so on.

For a component, you can define schedules based on both value date and calendar date.

Frequency Unit

Here, you have to capture the unit to define the schedule. The unit can have the following values:

- Daily
- Weekly
- Monthly
- Quarterly

- Half Yearly
- Yearly
- Bullet

If the schedule unit is 'Weekly', you should also capture the 'Start Day'. Similarly, for units 'Quarterly', 'Half Yearly' and 'Yearly', you should also specify the 'Start Month'.



If you maintain a simple interest type product, you do not need a 'Bullet' schedule; however, in case of an amortizing product you need to maintain a 'Bullet' schedule separately.

Frequency

This is used in combination with 'Unit' explained above, to define non-standard frequencies. For instance, a 'Monthly' unit and frequency 2 implies that the schedule is bi-monthly (occurring every two months).

Start Day

If the schedule unit is 'Weekly', you should specify the start day to initiate the schedule. The drop-down box lists the days of the week

Start Month

This is applicable if the schedule unit is one of the following:

- Quarterly
- Half Yearly
- Yearly

The drop-down box lists the months in a year

Start Date

Here, you can specify a value between 1 and 31. This is applicable if the schedule unit is 'Monthly'

Due On

You can use this to define a schedule on a particular date of the month. A value between 1 and 31 can be used for this purpose. If you specify a value here, the system will build the schedules based on this date even if you have indicated the 'Start Date' for the schedule.

Formula Name

You have to select the formula applicable for component value calculation. The Booked and Intermediate formulae defined for the component are available in the option list. With a user-defined formula maintained through the rule builder, you can define a schedule with multiple formulae.

Schedule Flag

You can define a non-repayment schedule or a repayment schedule. This field is used to identify the schedule type:

- Normal: This refers to a repayment schedule. Repayment happens as and when the schedule falls due
- Moratorium: This refers to a non-repayment schedule or a repayment holiday during the repayment cycle of a loan

Number of schedules

The value captured here determines the number of times a schedule frequency should recur. For example, a 12 monthly schedule would have a 'Monthly' unit and number of schedules as 12. The number of schedules you specify here should be in accordance with maximum tenor you have specified in 'Tenor' section of 'Preferences' tab.

Capitalized

Check this option to specify capitalization of the component for a particular schedule. If the 'Capitalized' option (under Component Definition) is checked, the 'Capitalized' option at the schedule level will also be checked for payment schedules. You can, however, uncheck this option for a schedule.

Liability Loan Product Configuration:

- Disbursement - of asset and liability loan products are maintained in sync i.e. disbursement of liability loan happens only once the disbursement of asset loan is processed.
- Every Funding Entity has a different loan product configured.
- In order to track payables, each component has "[Balance Type](#)" as "Credit".
- "ALIQ" event is defined to ensure that installments are paid on due date.
- No charge component is configured.

Sample accounting entries of "DSBR" event:

Entry Pair Number	Accounting Role	Amount Tag	Debit Credit Indicator	Settlement Required
1	DR_SETTL_BRIDGE	PRINCIPAL	Debit	N
1	LOAN_ACCOUNT	PRINCIPAL	Credit	N

Sample accounting entries of "ACCR" event:

Entry Pair Number	Accounting Role	Amount Tag	Debit Credit Indicator
1	MAIN_INTEXP	MAIN_INT_ACCR	Debit
1	MAIN_INTPAY	MAIN_INT_ACCR	Credit

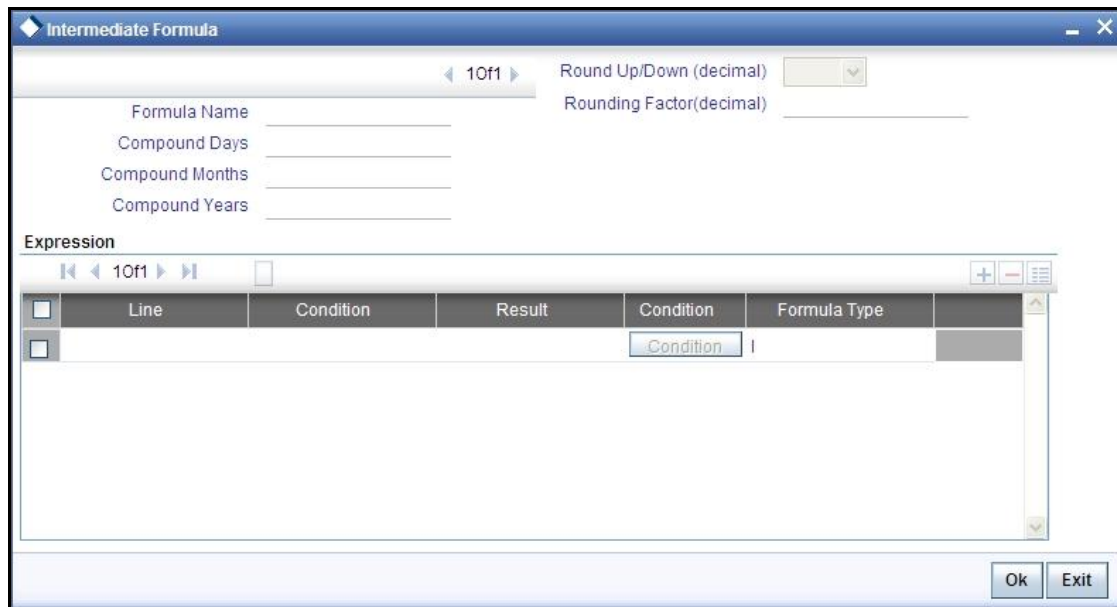
Sample accounting entries of “ALIQ” event:

Entry Pair Number	Accounting Role	Amount Tag	Debit Credit Indicator	Settlement Required
1	LOAN_ACCOUNT	PRINCIPAL_LIQD	Debit	N
1	CR_SETTL_BRIDGE	PRINCIPAL_LIQD	Credit	Y
2	MAIN_INTPAY	MAIN_INT_LIQD	Debit	N
2	CR_SETTL_BRIDGE	MAIN_INT_LIQD	Credit	Y

4.6.4.1 Intermediate Formula

Intermediate Formulae are used as building blocks for more complex formulae. An intermediate formula is used to create a Booked/Moratorium formula as an intermediate step. It will not be associated directly to any schedule.

To define an intermediate formula, click ‘Intermediate’ in the ‘Components’ button of the screen. The ‘Intermediate Formula - Expression Builder’ screen is displayed.



Formula Name

Specify a suitable name to identify the formula that you are defining. After you specify the name you can define the characteristics of the formula in the subsequent fields. You have to use the name captured here to associate a formula with a schedule. The name can comprise of a maximum of 27 alphanumeric characters.

Round Up/Down

If you want to round off the results of an intermediate formula, you can indicate the same. The options available are:

- Up
- Down

Rounding Factor

Specify the precision value if the number is to be rounded

It is mandatory for you to specify the precision value if you have maintained the rounding parameter.

Compound Days

If you want to compound the result obtained for the intermediate formula, you have to specify the frequency for compounding the calculated interest. The frequency can be in terms of days.

Compound Months

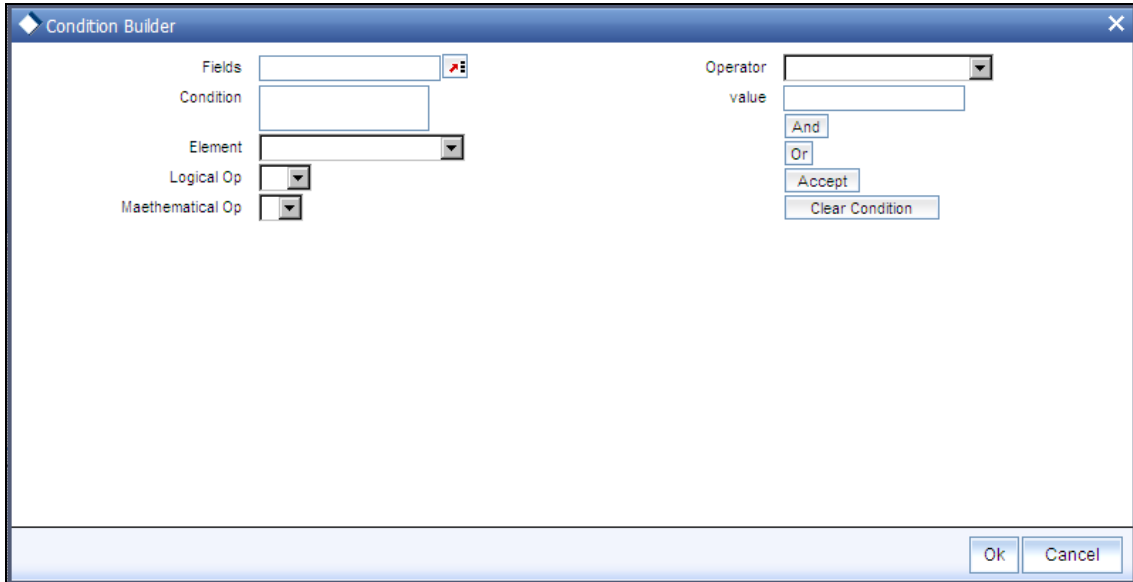
If you want to compound the result obtained for an intermediate formula, you have to specify the frequency for compounding the calculated interest. The frequency can be in terms of months.

Compound Years

If you want to compound the result obtained for an intermediate formula, you have to specify the frequency for compounding the calculated interest. The frequency can be in terms of years.

Condition and Result

A formula or calculation logic is built in the form of expressions where each expression consists of a 'Condition' (optional) and a 'Result'. There is no limit to the number of expressions in a formula. For each condition, assign a unique sequence number/formula number. The conditions are evaluated based on this number. To define a condition, click on 'Condition' in the screen above. The following screen is displayed:



The screenshot shows a dialog box titled "Condition Builder" with a close button (X) in the top right corner. The dialog is divided into several sections:

- Fields:** A text input field with a small icon to its right.
- Condition:** A text input field.
- Element:** A dropdown menu.
- Logical Op:** A dropdown menu.
- Maathematical Op:** A dropdown menu.
- Operator:** A dropdown menu.
- value:** A text input field.
- Buttons:** "And", "Or", "Accept", and "Clear Condition" buttons are stacked vertically.
- Footer:** "Ok" and "Cancel" buttons.

In this screen, you can use the elements, operators, and logical operators to build a condition.

Although you can define multiple expressions for a component, if a given condition is satisfied, subsequent conditions are not evaluated. Thus, depending on the condition of the expression that is satisfied, the corresponding formula result is picked up for component value computation. Therefore, you have the flexibility to define a computation logic for each component of the product.

The result of the formula may be used as an intermediate step in other formulae.

Using Intermediate Formulae for Amortized Loans

You can use intermediate formula in the interest components of amortized mortgage loans. To enable this, you need to select the UDE 'Z_INTRMMDT_RATE' against the field 'Rate to Use'.

Further, you can set an intermediate formula with a combination of multiple UDEs in the 'Result' field. For example, you may specify the following formula:

INTEREST_RATE + MARGIN_RATE

This implies that the result is the sum of two user defined elements viz. 'INTEREST_RATE' and 'MARGIN_RATE'. You may also define different formulae based on the conditions set. Intermediate formulae support the following mathematical functions:

- Plus (+)
- Minus (-)
- Multiplication (*)
- Division (/)

Based on requirements, you may define and set various formulae using the above mathematical functions.

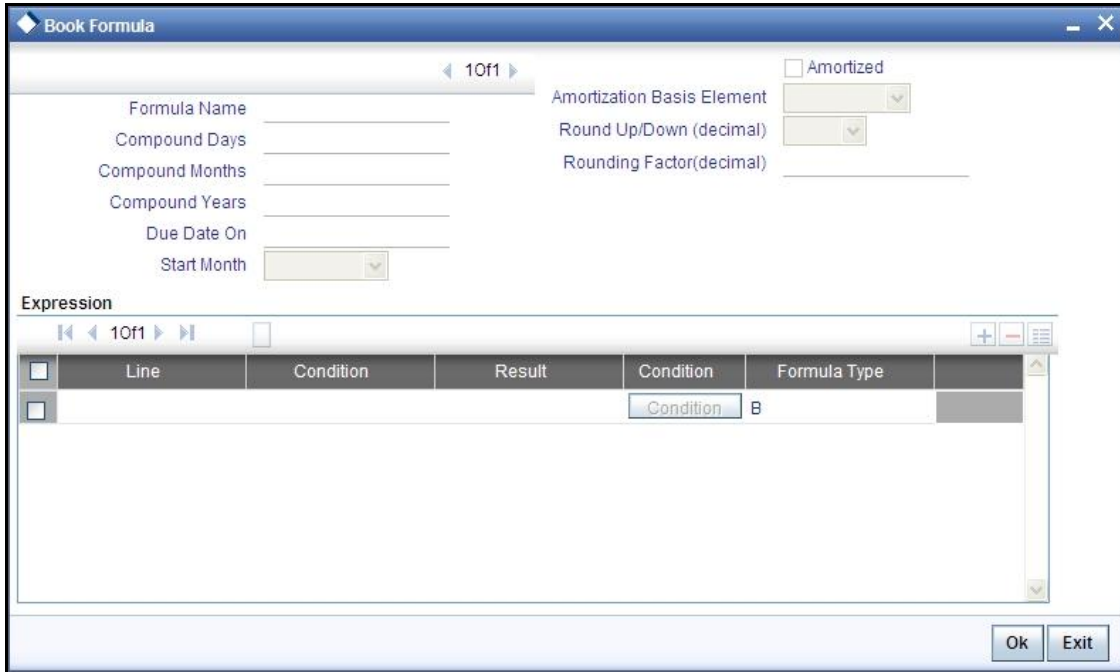
The system calculates the value of the UDE 'Z_INTRMDT_RATE' based on the intermediate formula defined. This calculation is handled in the system generated package. Apart from 'Z_INTRMDT_RATE', the system will not allow you to define a UDE that starts with 'Z_'.

Oracle FLEXCUBE uses the following formats to display the derived interest rate:

Formats
CL_AMD_ADV
CL_LOAN_DETAIL
CL_CONTR_STMT
CL_UDE_ADVC
CL_RTCH_ADV

4.6.4.2 Booked Formula

Booked Formula refers to the formula used to compute a component value for a particular schedule. You can use intermediate formulae to create a 'Booked' formula. To create the formula, click 'Book' in the 'Component' button of the screen. The following screen is displayed:



The SDEs available will be shown in the Condition Builder. You can use the relevant ones to build the formula. For instance, you need to use the SDE 'TOTAL_SCHODUE' in the formula to compute schedule amount for subsidy loan products. The Booked formula so created will be linked to a schedule.

Oracle FLEXCUBE uses few specific SDEs to compound the penalty interest on the compounding details. The SDEs and respective value are as follows:

SDE	Value
PRINCIPAL_EXP_AND_ODUE_COMP	If there is compounding defined and is overdue past the subsequent compounding date that follows this schedule, this SDE returns the sum of principal expected for the schedule and the principal that is overdue.
<COMPONENTNAME>_OVERDUE_COMP	If there is no compounding defined, this SDE returns the total overdue for the component. If there is compounding defined, this SDE returns the total overdue for a component on a compounding date, and would return the total overdue for a component till the last compounding

	date, on non-compounding dates.
<COMPONENT_NAME >_POST_MAT_ODUE	This SDE returns the total overdue for the component post maturity date of the account.

These are some of the examples of the formulae generated by the system on its own by choosing the formula type and the basis elements.

- Simple -
@SIMPLE(PRINCIPAL_EXPECTED,(INTEREST_RATE),DAYS,YEAR,COMPOUND_VALUE)
- Amortized Reducing -
@AMORT_RED(PRINCIPAL_EXPECTED,(INTEREST_RATE),DAYS,YEAR)
- Discounting -
@DISCOUNTED(PRINCIPAL_EXPECTED,(INTEREST_RATE),DAYS,YEAR)
- Amortised Rule 78 -
@AMORT_78(PRINCIPAL_EXPECTED,(INTEREST_RATE),DAYS,YEAR)
- True Discounted -
@TRUE_DISC(PRINCIPAL_EXPECTED,(INTEREST_RATE),DAYS,YEAR)
- Amortized – Payment in Advance -
@AMORT_ADV(PRINCIPAL_EXPECTED,INTEREST_RATE,DAYS,YEAR)
- Simple – Payment in Advance -
@SIMPLE_ADV(PRINCIPAL_EXPECTED,INTEREST_RATE,DAYS,YEAR,COMPOUND_VALUE)
- Amortized Formula – Compound on overdue for main interest –

@AMORT_RED (PRINCIPAL_EXP_AND_ODUE_COMP +
MAIN_INT_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)
- Amortized Formula – Compound on overdue for penalty component –

@AMORT_RED (PRINCIPAL_EXP_AND_ODUE_COMP +
PEN_INT_COMPNAME_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)
- Amortized Formula – Compound on overdue for penalty component on principal and main interest –

@AMORT_RED (PRINCIPAL_EXPECTED +
PEN_PRIN_COMPNAME_OVERDUE_COMP +
PEN_INT_COMPNAME_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)

@AMORT_RED (PRINCIPAL_EXP_AND_ODUE_COMP +
PEN_PRIN_COMPNAME_OVERDUE_COMP +
PEN_INT_COMPNAME_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)
- Simple – Compound on overdue for main interest –

@ SIMPLE (PRINCIPAL_EXP_AND_ODUE_COMP + MAIN_INT_OVERDUE_COMP,
(INTEREST_RATE), DAYS, YEAR, COMPOUND_VALUE)

- Simple – Compound on overdue for penalty component –

@ SIMPLE (PRINCIPAL_EXP_AND_ODUE_COMP +
PEN_INT_COMPNAME_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)

- Simple – Compound on overdue for penalty component on principal and main interest –

@SIMPLE (PRINCIPAL_EXPECTED + PEN_PRIN_COMPNAME_OVERDUE_COMP +
PEN_INT_COMPNAME_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)

@SIMPLE (PRINCIPAL_EXP_AND_ODUE_COMP +
PEN_PRIN_COMPNAME_OVERDUE_COMP +
PEN_INT_COMPNAME_OVERDUE_COMP, (INTEREST_RATE), DAYS, YEAR,
COMPOUND_VALUE)

- Provision Result –

(PRINCIPAL_OUTSTAND – @fn_coll('LAND^SECURITIES^','5^6^'))

Here, LAND and SECURITIES are the collateral types and 5 and 6 are the percentage of the collateral contribution used for calculating the provision amount during status changes.

You can maintain variation of the above formulae to achieve certain specific results

Example:

Assume that for an amortized type CL product, you wish to collect processing charge @ 1.5 % subject to minimum processing charge of 1000 INR and maximum processing charge of 5000 INR.

Maintain UDEs as under:

- MIN_PROC_CHG: 1000 INR
- MAX_PROC_CHG : 5000 INR
- PROC_CHG: 1,5%

Maintain SDEs - AMOUNT_FINANCED, RATE, DAYS, YEAR

Maintain Formula (Booked) - PROC_CHG_FRM_1 as under:

LEAST (GREATEST (@SIMPLE (AMOUNT_FINANCED,
PROC_CHG_RATE,DAYS,YEAR,COMPOUND_VALUE),MIN_PROC_CHG),MAX_PROC_CHG)

In case financed amount is 14, 00,000 INR, system will apply the processing charge 1750 INR (minimum).

The parameters required to create a 'Booked' formula are similar to the ones explained for an Intermediate formula.

The formula for calculation of 'Provision Amount' is defined based on the following conditions:

Line	Condition	Result
1	CUSTOMER_CREDIT_RATING="AAA"	PRINCIPAL_OUTSTAND*0.0015
2	CUSTOMER_CREDIT_RATING="AA+"	PRINCIPAL_OUTSTAND*0.0025
3	CUSTOMER_CREDIT_RATING="AA"	PRINCIPAL_OUTSTAND*0.0035
4	CUSTOMER_CREDIT_RATING="A+"	PRINCIPAL_OUTSTAND*0.0045
5	CUSTOMER_CREDIT_RATING="A"	PRINCIPAL_OUTSTAND*0.0055
6	CUSTOMER_CREDIT_RATING="BBB"	PRINCIPAL_OUTSTAND*0.0065
7	CUSTOMER_CREDIT_RATING="BB+"	PRINCIPAL_OUTSTAND*0.0075
8	CUSTOMER_CREDIT_RATING="BB"	PRINCIPAL_OUTSTAND*0.0085

Amortized

Select this option to specify that the schedules of the component should be amortized



For Commitment products do not select this option

Amortization Basis

If you opt to Amortize the schedules of the component, you have to identify the element based on which the component is amortized. For example, if it is deposit interest, the amortization basis would be 'Principal'. The components are available in the option list provided.

In case of a subsidy loan, amortization is done with both the main interest and the subsidy component. For instance, if the interest rate is x% and the subsidy rate is y%, amortization will be done using net interest rate as x+y%, in the aforesaid scenario. The interest component will be calculated for the main interest and the subsidy component based on the principal expected and the individual rates for the components.

Due Date On

Specify day on which you need to compound the interest.

Start Month

Select month from which you need to compound the interest from the adjoining drop-down list. This list displays the names of the months in year.

Compounding Frequency

Suppose compounding should be processed on the 7th of every month, then the 'Due Date On' should be maintained as 7. If it is required that compounding should start from a specific month say March, then the Start Month should be maintained as 3. If the 'Start Month' or 'Due Date On' are not maintained, then the system will continue to compound based on the loan value date, for the given frequency (in days/months/years).

Example:

Let a loan be opened with the following details:

Loan Amount	20000
Loan Value Date	31-Jan-2008
Maturity Date	30-Jan-2009
Payment Frequency	Half-Yearly
Compounding Frequency	Quarterly
Due Date	7 th
Start Month	3 (March)
Rate of Interest	10%

The compounding dates would be as follows:

- 07-Apr-2008
- 07-Jul-2008
- 07-Oct-2008
- 07-Jan-2008

On these compounding dates for a component, the system will trigger re-computation of that component so that the interest gets compounded to the principal and the interest for the next period gets computed on this compounded amount as follows:

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
		1.00000 00000	1.0000 000000					20000.00
31-Jul-2008	182	1.05055 55555	1.0505 555555	1.05111111 11	10767 .34	1032.92	9734.42	10265.58
		555600 0000	555600 0000	1111000000				

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
7-Feb-2008	7					38.8888 8889		
7-Mar-2008	29					161.424 3827		
7-Apr-2008	31					173.947 1421		
7-May-2008	30					169.785 5034		
7-Jun-2008	31					176.907 0621		
7-Jul-2008	30					172.674 6082		
31-Jul-2008	24					139.290 8506		
31-Jan-2009	184	1.05111 11111	1.1042 506172	1.00000000 00	10801 .71	536.13	10265.58	0.00
		111100 0000	839500 0000	0000000000				
7-Aug-2008	7					19.9608 5		
7-Sep-2008	31					88.5699 351		
7-Oct-2008	30					86.4509 2321		
7-Nov-2008	31					90.0770 5915		
7-Dec-2008	30					87.9219 8973		
7-Jan-2009	31					91.6098 2874		
31-Jan-2009	24					71.5344 7057		
				2.05111111 11				
				1111000000				

To bring down the difference between the bullet EMI and the other EMI, the system will compute the present value of the differential amount and add it to the basis amount and re-compute the EMI in an iterative process till the difference between the two is less than 1.

The present value of the residual principal would be computed using the following formula:

$$\text{Present Value} = \text{Diff In EMI} / ((1 + R/100/C)^{(N * I)})$$

Where,

- R – Rate of Interest for the loan account
- C – Number of compounding cycles per annum
- N – Total number of installment/schedules for the loan account
- I – Number of compounding cycles per installment

Taking the above example, the present value would be computed on the differential amount as follows:

$$\text{Iteration 1: Present Value} = 34.37 / ((1 + 10 / 100 / 12)^{(2 * 6)}) = 34.37 / 1.104713067 = 31.11215121$$

Now this amount would be added to the basis amount for computing the EMI, so 20000 + 31.11215121 = 20031.11215121. The EMI would now be as follows:

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
		1.0000000000 0000000000	1.00000000 00000000					20000.00
31-Jul-2008	182	1.0505555555 5556000000	1.050555555 5556000000	1.051111111 1111000000	10784.09	1032.92	9751.17	10248.83
7-Feb-2008	7					38.88888889		
7-Mar-2008	29					161.4243827		
7-Apr-2008	31					173.9471421		
7-May-2008	30					169.7855034		
7-Jun-2008	31					176.9070621		
7-Jul-2008	30					172.6746082		

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
31-Jul-2008	24					139.2908506		
31-Jan-2009	184	1.051111111 111100000	1.1042506172 839500000	1.000000000 000000000	10784.08	536.13	10248.83	0.00
7-Aug-2008	7					19.92828056		
7-Sep-2008	31					88.42541853		
7-Oct-2008	30					86.30986416		
7-Nov-2008	31					89.93008346		
7-Dec-2008	30					87.77853039		
7-Jan-2009	31					91.46035208		
31-Jan-2009	24					71.41775019		
				2.051111111 111100000				

Case 1: Compounding Frequency lesser than Payment Frequency:

Loan Amount	20000
Loan Value Date	31-Mar-08
Maturity Date	30-Jun-2009
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly
Interest Method	Actual/360

VAMI Re-computation	Balloon Payment
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Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Prinicipal	Expected Principal
		1.0000000000 0000000000	1.0000000000 0000000000					20000.00
30-Jun-08	91	1.025277777 777800000	1.025277777 777800000	1.1053092206 704400000	4312.2	509.83	3802.37	16197.63
30-Apr-08	30					166.6666 667		
31-May-08	31					173.6574 074		
30-Jun-08	30					169.5027 006		
30-Sep-08	92	1.025555555 555600000	1.0514793209 876500000	1.0777663040 123500000	4312.2	417.48	3894.72	12302.91
31-Jul-08	31					139.4795917		
31-Aug-08	31					140.6806659		
30-Sep-08	30					137.3149188		
31-Dec-08	92	1.025555555 555600000	1.0783504591 906700000	1.0509097222 222200000	4312.2	317.09	3995.11	8307.80
31-Oct-08	31					105.941		

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
						725		
30-Nov-08	30					103.4070977		
31-Dec-08	31					107.744451		
31-Mar-09	90	1.025000000	1.1053092206	1.025277777	4312.2	209.43	4102.77	4205.03
		000000000	704400000	777800000				
31-Jan-09	31					71.53938889		
28-Feb-09	28					65.17263969		
31-Mar-09	31					72.71663136		
30-Jun-09	91	1.025277777	1.1332489815	1.000000000	4312.22	107.19	4205.03	0.00
		777800000	262700000	000000000				
30-Apr-09	30					35.04191667		
31-May-09	31					36.51173039		
30-Jun-09	30					35.63819706		
				5.2592630246				
				827800000				

# Iteration	Bullet EMI	Difference in EMI	Present Value	New Basis Amount	New EMI
1	4323.54	14	12.36135764	20012.36135764	4312.20

Case 2: Compounding Frequency same as Payment Frequency:

Loan Amount	20000
Loan Value Date	31-Mar-08
Maturity Date	30-Jun-2009
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Quarterly
Interest Method	Actual/360
VAMI Re-computation	Balloon Payment

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
		1.0000000000 0000000000	1.0000000000					20000.00
30-Jun-08	91	1.0252777777 7778000000	1.0252777777 7778000000	1.1053092206 7044000000	4309.54	505.56	3803.98	16196.49
30-Sep-08	92	1.0255555555 5556000000	1.0514793209 8765000000	1.0777663040 1235000000	4309.54	413.91	3895.64	12301.33
31-Dec-08	92	1.0255555555 5556000000	1.07835045919 067000000	1.0509097222 2222000000	4309.54	314.34	3995.2	8303.21
31-Mar-09	90	1.0250000000 000000	1.10530922067 0440	1.0252777777 7778000000	4309.54	207.63	4101.91	4201.72

Schedule Date	Days	Sch Factor	Instalment	Instalment Denom	EMI	Interest	Principal	Expected Principal
		0000	00000					
30-Jun-09	91	1.0252777777 7778000000	1.1332489815 2627000000	1.0000000000 0000000000	4309.52	106.25	4203.27	0.00
				5.2592630246 8278000000				

You can define compounding frequency for a component same as or lesser than its payment frequency, but if the compounding frequency is greater than its payment frequency then there will be no compounding.

4.6.4.3 Moratorium Formula

Moratorium refers to the repayment holiday given during the period between the value date of the loan and the first repayment date. While no repayment will happen during this period, computation will continue. However, you can also have a principal moratorium wherein no principal repayment happens in a certain period; only interest component is repaid. This moratorium may be applied at any stage of the repayment cycle of the loan. In case of a principal moratorium, you need to ensure that the tenor given in the formula does not exceed the principal moratorium period. The Moratorium formula is used for the computation of interest for the moratorium period.

To define the formula, click 'Moratorium' in the 'Component' button of the screen. The 'Moratorium Formula – Expression Builder' screen is displayed:

The procedure for defining the Moratorium formula is as explained for Intermediate and Booked formulae. The following additional fields are also applicable for a moratorium formula:

Formula Name


Here, you specify a suitable name to identify the formula that you are defining. After you specify the name, you can define the characteristics of the formula in the subsequent fields. You have to use the name captured here to associate a formula with a schedule. The name can comprise of a maximum of 27 alphanumeric characters.

Moratorium Liquidation Formula

The formula used for computation of interest for the moratorium period is called 'Moratorium Formula'. The Interest calculated using the moratorium formula should be liquidated for the lifetime of the loan by apportioning it across all the installments. Therefore, you need to maintain a formula for liquidating the moratorium interest.

Check this option to indicate that the formula you have maintained is for Moratorium liquidation.

Liquidate Moratorium to Installment

 This option is applicable only if you are defining a 'Moratorium Liquidation Formula'

If you check this option, the moratorium interest amount is added to the first installment amount and collected along with the schedule on the day the schedule falls due.

If you do not check this option, the moratorium amount is allocated from the Installment due. The principal component of the EMI is liquidated towards the moratorium. Therefore, Principal repayment does not begin until complete settlement of the moratorium amount.

Default Moratorium Formula

If you want to create a default moratorium formula, check this option. By default, the system will attach this formula to a moratorium schedule. You can, however, change it to a different moratorium formula.

4.6.4.4 Installment Level Status

For a component, you can maintain Schedule/Installment level status change parameters. You can also specify the account Heads and Roles to be used whenever an installment changes from one status to the other.

To define the installment level status change details, click 'Installment Status' in the 'Components' button of the screen - the 'Installment Status' screen is displayed:

Entry Pair Number	Accounting Role	Amount Tag	Debit/Credit	Netting Indicator	Transaction C
-------------------	-----------------	------------	--------------	-------------------	---------------

The following details have to be captured here:

Sequence Number

The number you capture here is used to identify the adversity level of an installment. It should not overlap with that of an account status, except for the first factory shipped status 'NORM' (Normal).

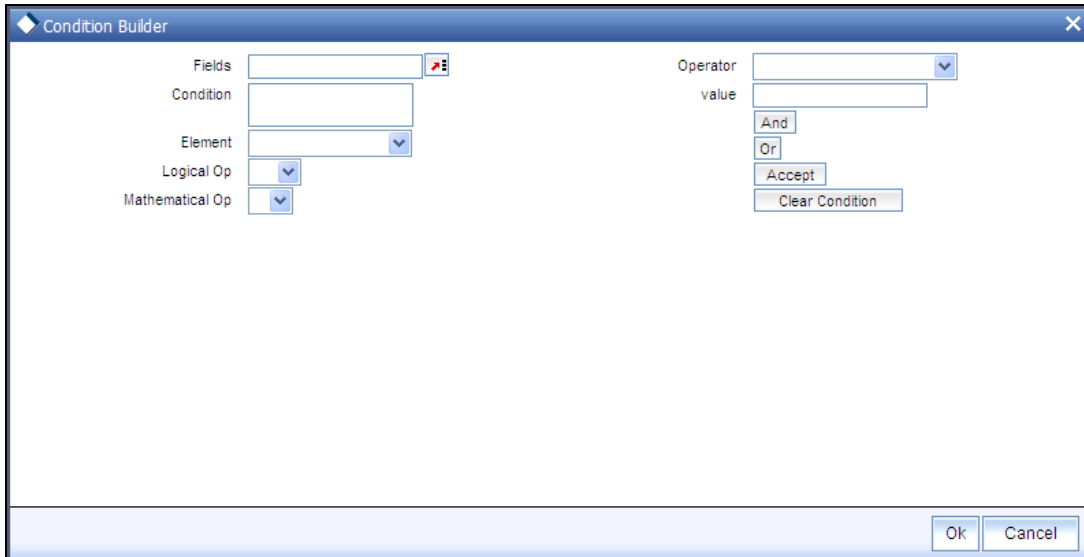
Status Code

The status that an installment will go through is specified here. The sequence number determines the order when the installment would attain this status. The status codes defined in the 'Status Codes Maintenance' screen are available in the option-list provided.

Status Rule

The rule defined here will determine the movement of the installment to the selected status (in the 'Status' field). You can build multiple conditions for a rule.

To do this, click on 'Condition' in the screen above. The 'Condition Builder' is displayed.



You can build the conditions using the elements (SDEs), operators and logical operators available in the screen above.

Examples of Status Movement Rules are given below:

- NORM TO PDO1 PRINCIPAL_OVR_DAYS > 30 OR MAIN_INT_OVR_DAYS > 30
- NORM TO DOUB PRINCIPAL_OVR_DAYS > 60 OR MAIN_INT_OVR_DAYS > 60
- PDO1 TO NORM PRINCIPAL_OVR_DAYS < 31 AND MAIN_INT_OVR_DAYS < 31
- PDO1 TO DOUB PRINCIPAL_OVR_DAYS > 60 OR MAIN_INT_OVR_DAYS > 60
- DOUB TO PDO1 (PRINCIPAL_OVR_DAYS > 30 AND PRINCIPAL_OVR_DAYS < 61) AND (MAIN_INT_OVR_DAYS > 30 AND MAIN_INT_OVR_DAYS < 61)
- DOUB TO NORM PRINCIPAL_OVR_DAYS < 31 AND MAIN_INT_OVR_DAYS < 31

For details on building a condition using the options available in the screen, refer the section titled 'Defining UDE Rules' in the 'Maintenances and Operations' chapter of this User Manual.

The installment will move to the status selected if the associated status rule is satisfied.

Complete Pending Accruals

Check this box to indicate if the pending interest accruals need to be completed before the Installment status changes. This is applicable only if Accrual Frequency is any one of the following:

- Monthly

- Quarterly
- Half yearly
- Yearly

This check box will not be enabled if Accrual Frequency in the 'Consumer Lending Product' screen is 'Daily'.

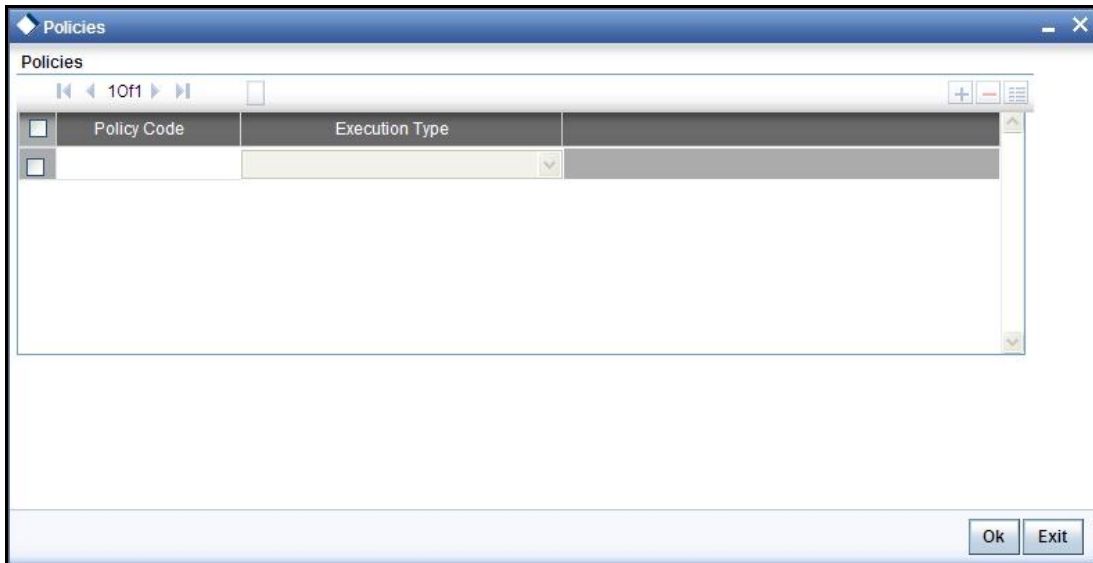
Accounting Entries

For each status of the installment, you can specify the accounting entry preferences. Whenever an installment attains a status, the entries are passed as per the setup maintained for that status. Therefore, the entries will be moved from the active GLs to the status specific GLs. However, when the actual payment occurs, the system will automatically resolve the appropriate GLs.

For more details on setting up accounting entry preferences, refer the section titled 'Maintaining Event details' in this chapter.

Specifying Policy preferences

You can associate policies at an installment level. Policies are user defined validations that are fired when an event is triggered. To link a policy, click 'Policies' in the 'Component Installment Status' screen – the following screen is displayed:



Specify the following in this screen:

Policy Code

The Standard Policies (defined through the 'Policy Maintenance' screen) and the Policies associated with the product category are available in the option list provided. Policies are used to handle special validations and operations on a loan.

Execution Type

You can associate a policy at one of the following points in time in a loan -event lifecycle:

- Before Event
- After Event
- Both

The policy is executed appropriately.

For details on maintaining policy details, refer the section titled 'Maintaining User Defined Policies' in the 'Maintenances and Operations' chapter of this User Manual.

4.6.4.5 Processing at Installment Level

At the installment level, if there is a change in the installment status, Oracle FLEXCUBE will first check if accrual is required for the installment components. When the accrual frequency for a component is not 'Daily', Oracle FLEXCUBE will validate if the installment status changes before accrual execution date. If it changes, Oracle FLEXCUBE will trigger catchup accrual for the component till the installment status change date. Subsequent to this, Oracle FLEXCUBE will process the installment status change.

The following example will explain the Complete Pending Accrual functionality. This is applicable for both Installment Level as well as Account Level Status change.

Example

Let us assume an accrual frequency for a component MAIN_INT. The schedules for this component are as follows:

- Value Date – 05-Jan-06
- Schedule Dates:
 - 05-Jan-06,
 - 05-Feb-06
 - 05-Mar-06
- Accrual Execution Dates:
 - 31-Jan-06
 - 28-Feb-06

If the installment status or account status changes on 15-Jan-06, Oracle FLEXCUBE will trigger catch up accrual if 'Complete Pending accrual' is checked.



Note the following:

- An installment status change will not change the next execution date of unprocessed ACCR events.
- A status change is applicable for both manual and automatic installment status.
- If you delete an Installment level status change, it will delete the catch up accrual accounting entries also.

You can reverse an installment level status change by inputting another installment level status change. For example, if installment status changes from NORM to OVD1, reversal of the same can be done by doing installment status change from OVD1 to NORM. In this case no processing will be done.

4.6.4.6 Weak temporality & base re-computation

PENAL_COMPOUND SDE supports base re-computation method as well as weak temporality functionality.

The logic is to fetch the amount settled for the penal component and also the amount settled for all the other components as well while considering penal liquidation base. This SDE adds the penal amount calculated till previous day to the penal liquidation base.

Batch Process:

For Batch processing details, refer the Batch Processes chapter in this User Manual.

Main Interest, Penal Interest calculation and accrual Process are as explained in below examples

Product Configuration

At CL branch parameter “Next Working day-1” is checked. “ACCR”: process is configured only in EOD. “PENL”: process is configured both in BOD and EOD.

Processing Changes

- Main Interest Calculation in Weak Temporality = 0 (when penal on overdue is triggered)
 - System accrues the main interest in EOD process; for the holidays system accrues the interest for non working day on the previous working day.
 - In case month end is a holiday and holiday days are falling in two months then system accrues the interest for non working day falling in current month on the previous working day and system accrues the interest for non working day falling in next month on the next working day EOD.
- Main Interest Calculation in Weak Temporality = 1 (when penal on outstanding is triggered)
 - System accrues main interest in EOD process; for the holidays system accrues the interest for non working day on the previous working day. In case loan installment

becomes overdue on next working day EOD then system reverses the main interest accrued amount only for Weak Temporality checked product.

- In case month end is a holiday and holiday days are falling in two months then system accrues the interest for non working day falling in current month on the previous working day and system accrues the interest for non working day falling in next month on the next working day EOD. In case loan installment becomes overdue on next working day EOD then system reverses the main interest accrued amount only for Weak Temporality checked product.

Penalty Interest Calculation in Weak Temporality = 0/ Weak Temporality = 1

In case due date is falling on holiday system does not calculate/accrue Penalty Interest till next working day EOD and On the next working day EOD, system calculates/accrues Penalty interest for all the non working days till today, if loan continues to be in overdue.

Once loan installment is in overdue status, system accrues the Penalty interest for non working days on the previous working day for normal holidays/normal weekend.

Once loan installment is in overdue status and In case month end is a holiday and holiday days are falling in two months then system calculates/ accrues the Penalty interest for non working day falling in current month on last working day EOD of the month and system calculates the Penalty interest for non working day falling in next month on the next working day BOD; if loan continues to be in overdue on 1st working day of the month then system accrues the Penalty interest on that day EOD.

4.6.4.7 Disbursement Charges/Commissions

In product maintenance, charge components with calculation type 'Formula without Schedule' are defined and associated with disbursement event. Charge calculation formula is defined according to the requirement.

Debit settlement account of these components is configured using <Component>_COLL_Mode SDE.

In product maintenance, for every charge component one GMF component is defined. Calculation type of this component should be 'Formula without Schedule'. Component type will be 'Charge'. If the charge component is DSBR_CHG1 and DSBR_CHG1_FRM_1 is the formula name used for this component, then following will be GMF calculation formula


- $DSBR_CHG1_GMF_FRM1 = DSBR_CHG1_FRM_1 * GMF_FACTOR$

For every charge component, one IVA component will be defined. Calculation type of this component will be 'Formula without Schedule'. Component type will be 'Charge'. If the charge component is DSBR_CHG1 and DSBR_CHG1_FRM_1 is the formula name used for this component, then following will be GMF calculation formula

- $DSBR_CHG1_IVA_FRM1 = DSBR_CHG1_FRM_1 * IVA_FACTOR$

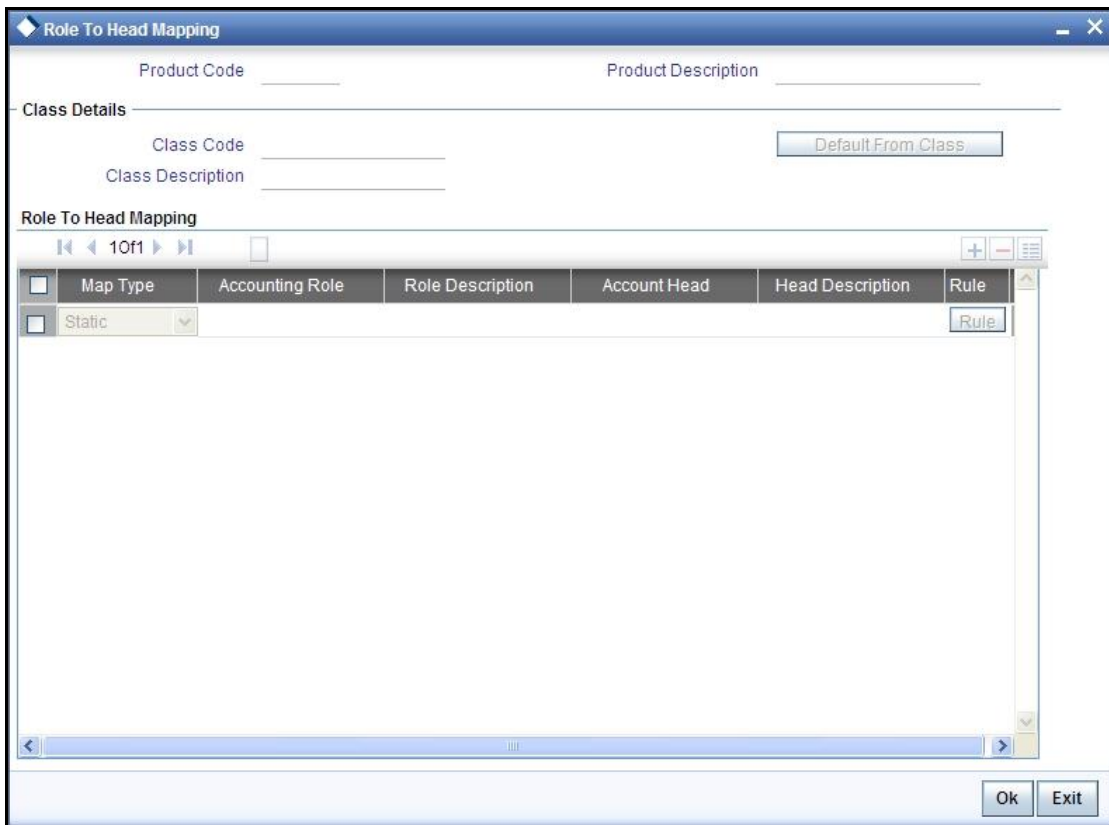
For each disbursement mode, the system will invoke a process in liability system to calculate the GMF, Commission, IVA and GMF on Commission & IVA. You need to maintain in liability system for source code and module code as 'CL' combination to configure different tariff for ACH and CENIT network.

- Deferred First Installment Charge and IVA: An Adhoc Charge component 'DFRD_FICHG_COMM' is defined at product level with adhoc charge type as 'Deferred Charge'.
- Deferred Commission and IVA on Disbursement: An Adhoc Charge component, 'DFRD_DSBR_FICHG_COMM' is defined at aproduct level with adhoc charge type as 'Deferred Settlement'.

 'DFRD_FICHG_COMM' and 'DFRD_DSBR_FICHG_COMM' components will have the highest priority in liquidation order.

4.6.5 Mapping Accounting Roles to Product

You can define the accounting roles for a product in the 'Role to Head' button of the 'Consumer Lending Product' screen. A list of accounting roles that are applicable to the product being maintained is provided. This list also includes the accounting roles that you have maintained for the module using the 'Accounting Role and Head Maintenance' screen.



The screenshot shows the 'Role To Head Mapping' window. At the top, there are input fields for 'Product Code' and 'Product Description'. Below this is the 'Class Details' section with 'Class Code' and 'Class Description' fields, and a 'Default From Class' button. The main area is titled 'Role To Head Mapping' and contains a table with the following columns: 'Map Type', 'Accounting Role', 'Role Description', 'Account Head', 'Head Description', and 'Rule'. The 'Map Type' dropdown is currently set to 'Static'. The table is empty. At the bottom right of the window are 'Ok' and 'Exit' buttons.

The following details are captured in this screen:

Class Code

Select a class code from the adjoining option list. The option list displays all the valid classes maintained in the system.

Click 'Default from Class' button to default the role to head mapping details for the selected class. You can select and modify the required role to head mapping details to suit the product you are defining. You can also define new role to head mapping by clicking the '+' button.

Map Type

The mapping between an accounting role and account head can be of the following types:

- Static: If the map type is static, you can link an accounting role to only one accounting/GL head (one to one mapping).
- User Defined: For a user defined map type, you can maintain multiple linkages under different conditions using a case-result rule structure (one to many accounting).

Accounting Role and Description

Accounting role is used to denote the accounting function of a GL or Account. To map an accounting role to an account head, select a valid accounting role from the option list provided. This list will display the roles available for the module.

Once you choose the accounting role, the description maintained for the role is also displayed in the adjacent field.

If you do not want to select a role from the option list, you can also create an accounting role for a product and specify a brief description for the same.



The GLs (Account Heads) for the Dr/Cr Settlement Bridge Role will default as per your selection in the 'Branch Parameters' screen.

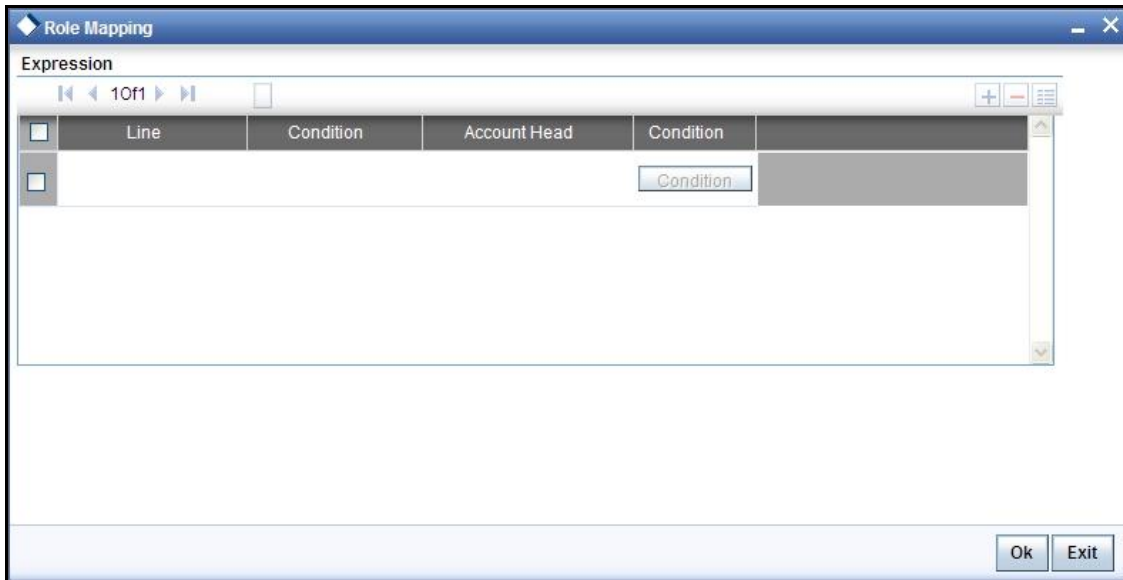
Account Head and Description

The account head identifies the GL or Account to which the accounting entries would be posted. Based on the type of accounting role you select (Asset, Liability etc.), the list of Account Heads (General Ledger heads) that are of the same type as that of the accounting role, becomes available in the option list provided. You can select an accounting head from this list and thus, create a role to head mapping. On selection of the Account Head, the description is also displayed in the adjacent field.

Click Add icon to create subsequent mappings for the product. If you would like to delete a role to head mapping, click Delete icon.

Rule

If the 'Map Type' is 'User Defined', you can create a case-result rule structure based on which the entries are posted to the appropriate account head. To create a rule, click 'Rule' in the 'Role to Head' button of the product screen.



You can define multiple conditions and for each condition you can specify the resultant 'Account Head'. This way you can maintain one to many mappings between an accounting role and an account head. Depending on the condition that is evaluated favourably, the corresponding account head is used for posting the entries.

The following SDEs are used to facilitate configuration of rule based role to head mapping.

- LOAN_CLASS: This SDE fetches the product class associated with the product. The product class is from the economic destination of the loan account if not available at product level,.
- LOAN_COLLATERAL_TYPE: If loan is backed up by real collateral ,then system will return value as 1 else 2.
- COMP_ACCRUE_STATUS: If loan component is accrued fully, then system will return value as 'Y' else 'N'. This SDE is used to configure RTH for the MLIQ/ALIQ accounting role

Following SDEs are used to configure user defined role to head mapping in case of commitment products:

- ACCOUNT_CCY - This will fetch the collateral currency.
- COLLATERAL_CATEGORY - This will fetch the collateral category i.e. collateral sub-class code of the underlying collateral.
- COLLATERAL_TYPE - This will fetch the Collateral type of the underlying collateral which can have either of the following values
 - R-Real
 - N-Non Real

To build a condition, click on 'Condition' in the screen above. The 'Condition Builder' is displayed.

You can build the conditions using the elements (SDEs), operators and logical operators available in the screen above.

For details on building a condition using the options available in the screen, refer the section titled 'Defining UDE Rules' in the 'Maintenances and Operations' chapter of this User Manual.



The system ensures that all accounting roles that are applicable for the Product and which have been used in the definition of the accounting entries are necessarily linked to an account head. If the mapping is not complete, an error message is displayed when you attempt to save the product.

4.6.5.1 Dynamic Creation of Accounting Roles for a Component

For each component you define for a product, six accounting roles are dynamically created by the system. For example, if you have defined a component 'MAIN_INT', the following accounting roles are created:

- MAIN_INTINC - Component Income
- MAIN_INTEXP - Component Expense
- MAIN_INTRIA - Component Received in Advance
- MAIN_INTPAY - Component Payable
- MAIN_INTREC - Component Receivable
- MAIN_INTPIA - Component Paid in Advance

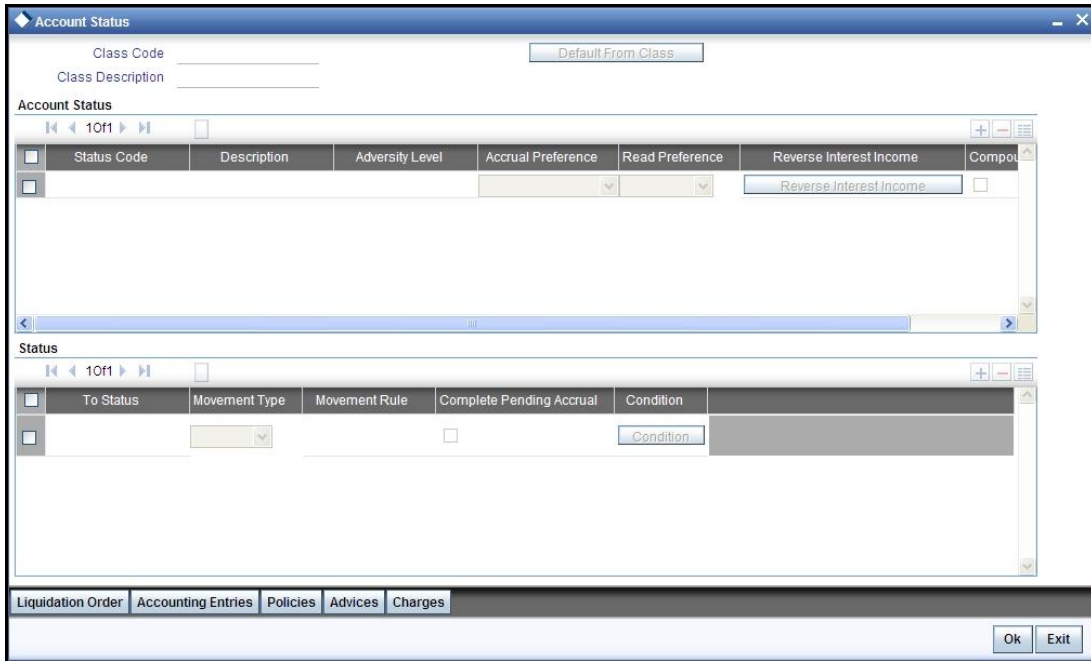
For a detailed list of Events, Advices, Accounting Roles and Amount Tags, refer 'Annexure 1' of this User Manual.

4.6.6 Specifying Account Status

Ideally, when setting up a product, you should identify all possible status that loans involving the product would move into. A status can apply either to a loan installment or the entire loan account.

For more details, refer the section titled ‘Specifying Component Details’ in this chapter

You can maintain account level status movement preferences the ‘Account Status’ screen.



In this screen, you can specify the following:

Class Code

Select a class code from the adjoining option list. The option list displays all the valid classes maintained in the system.

Click ‘Default from Class’ button to default the account status details for the selected class. You can select and modify the required details to suit the product you are defining. You can also define new account status by clicking the ‘+’ button.

- Define a status derivation rule to resolve a status
- Define accounting entries, advices etc. which need to be fired for a status
- Specify the liquidation order for a status
- Associate charges, if applicable, for a status
- Policies to be triggered for a status change

Status

When setting up a product, you should identify all possible statuses that loans involving the product would move into. By default, the 'NORM' (Normal) status is defined for the product. You can select the relevant status codes from the option list provided. The status codes defined through the 'Status Codes Maintenance' screen with 'Status Type' as 'Account' is available in this list.

When you select a status, the associated description is also displayed in the adjacent field.

Adversity Level

This signifies the adversity level of the status. The Status 'NORM' has an adversity level of '1' and is the most favorable. This is the default status for a loan.

Accrual Preference

For a status, you have to indicate the manner in which accounting entries should be posted when the loan moves to the status. The options are:

- Stop Accrual – accruals are frozen
- Reverse Accrual – accruals till date are reversed by transferring them to an expense GL
- Continue Accrual – accruals continue as in the previous status as per the Role to Head maintained for the status and as per the accounting entries defined

After you specify the status codes applicable for the product, you need to specify the manner in which the status movement should occur.

Compound on STCH

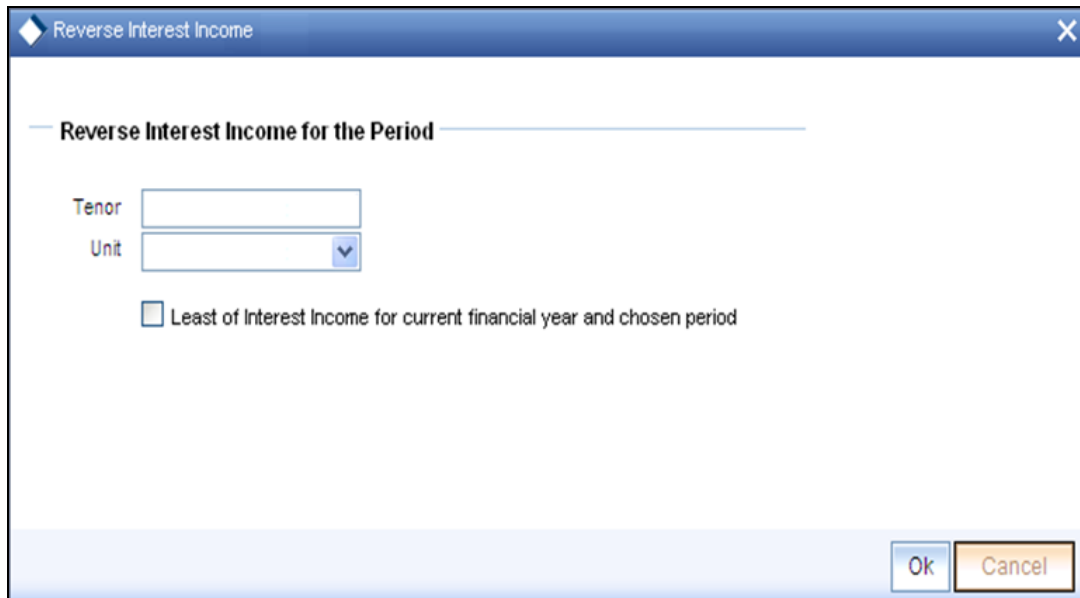
Check this box if you need to compound on status change.

Note the following:

- The SDE <COMPONENT>_OVR_DAYS is used to arrive at overdue days. Components to be considered for overdue day calculation depends on penal basis
- Movement type for status change is configured as 'BOTH' which enables both manual and automatic status movements.

4.6.6.1 Specifying Reverse Interest Income Details

You can maintain reverse interest income details for CL product. Click on the 'Reverse Interest Income' button to invoke 'Reverse Interest Income' screen.



Reverse Interest Income

Reverse Interest Income for the Period

Tenor

Unit

Least of Interest Income for current financial year and chosen period

Ok Cancel

You can specify following details here:

Tenor

Specify period for which you need to reverse interest income.

Unit

Select unit for which interest income has to be reversed from the adjoining drop-down list. This list displays the following values:

- Days – Select if you need to reverse days' income.
- Months – Select if you need to reverse months' income.
- Years – Select if you need to reverse years' income.
- Current Financial Year – Select if you need to reverse current financial years' income



If you chose Current Financial Year, then 'Least of Interest Income for Current Financial Year and Chosen Period' and Tenor will not be available.

Least of Interest Income for Current Financial Year and Chosen Period

Check this box if you need least of interest income for current financial year and chosen period.



If the check box is checked and 'Current Financial Year' is selected, then the system computes the amount based on the least of the two – Current Financial Year and Chosen Period. However; this reversing of income and accounting entries are processed only for 'Write-off' status.

From Status and To Status

When you highlight a status from the list of status codes maintained for the product, the selected status becomes the 'From Status'

In the option list provided for the 'To Status', the status codes applicable for the product is displayed. Select the relevant status into which a loan should move from the 'From Status'.

Movement Type

You have to indicate the type of movement of a loan from the current status (From Status) to the next status (To Status). The movement can be:

- Automatic
- Manual
- Both

Movement Rule

You have to define the status derivation rule which will determine the movement of a loan from one status to the other. This is the condition based on which the status movement occurs. If a loan satisfies all the rules defined due to which it can move to several statuses at a time, it will identify the most adverse status and move to that status.

To define a derivation rule, click 'Condition' button in the screen above. The 'Condition Builder' is displayed.

Complete Pending Accruals

Check this box to indicate if the pending interest accruals need to be completed before the Account status changes. This is applicable only if Accrual Frequency is any one of the following:

- Monthly
- Quarterly
- Half yearly
- Yearly

This check box will not be enabled if Accrual Frequency in the 'Consumer Lending Product' screen is 'Daily'.

You can build the conditions using the elements (SDEs), operators and logical operators provided in the screen above.

For details on building a condition using the options available in the screen, refer the section titled 'Defining UDE Rules' in the 'Maintenances and Operations' chapter of this User Manual.

Example

Assume that the current status of a loan is 'ACTIVE' and you want the loan to move to the 'OVERDUE' status if the overdue months exceeds zero. To meet this requirement, you can define the following parameters:

- From Status: Active
- To Status: Overdue
- Movement Type: Automatic
- Rule: If LOAN_STATUS = 'ACTIVE' AND OVERDUE_MONTHS > 0

If the loan satisfies the rule, it automatically moves to the 'Overdue' Status.

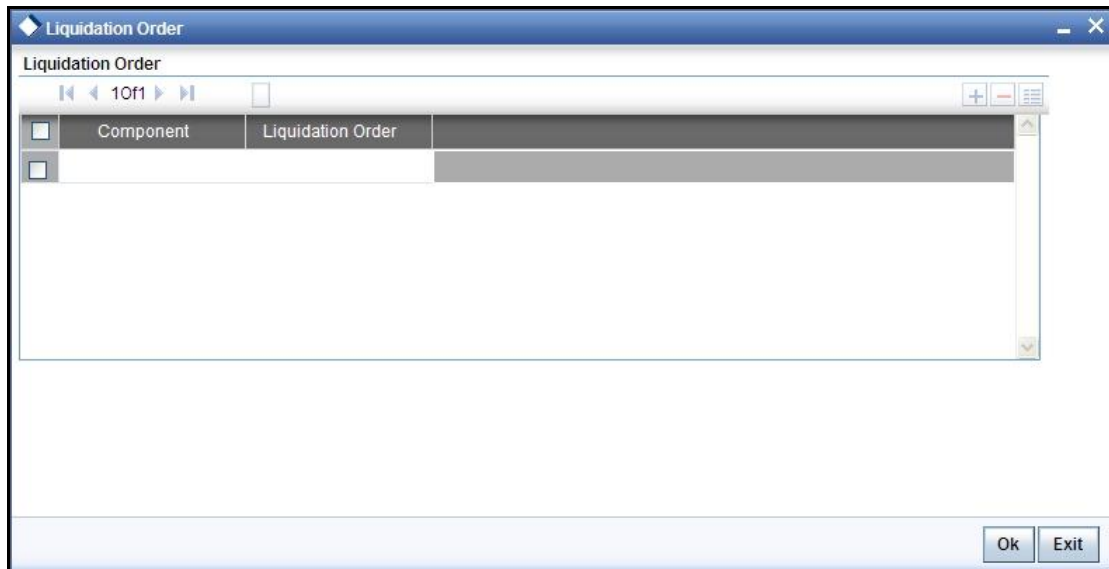


For securitization supporting product, you need to define a status called 'SECR' in the product and maintain corresponding accounting entries for the status change to / from SECR status.

Before Securitization, the user defined status will be 'NORM'. During securitization, system triggers the status change event and changes the status to 'SECR' and accordingly updates the Securitization Pool Reference Number. During Buyback of securitization contract, system triggers the status change event and changes the status from 'SECR' to 'NORM' status.

4.6.6.2 Specifying Liquidation Order

You can prioritize the liquidation of the various loan components at a status level. To maintain liquidation order of components, click 'Liquidation Order' in the 'Account Status' button of the screen – the following screen is displayed.



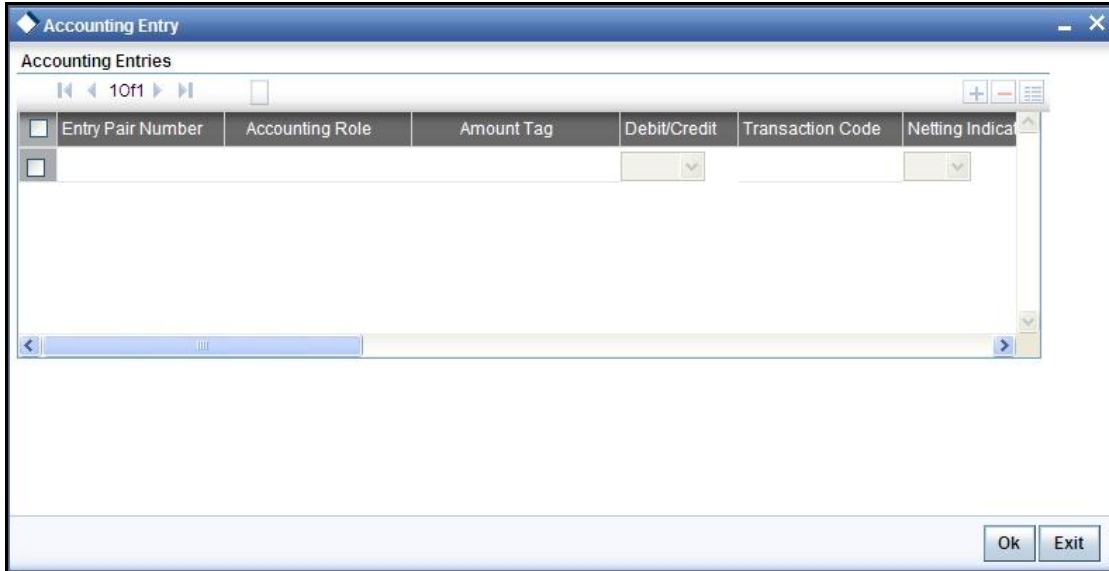
When a loan attains an adverse status, you may want to allot priority to the recovery of certain components. For example, you may want to recover the Principal first and then the Interest type of components.

The components maintained for the product are available in the option list provided. Select a component and then specify the order of liquidation for the component.

Click on Add icon to maintain the liquidation order for the next component

4.6.6.3 Specifying Accounting Preferences

You can specify accounting preferences at a status level. You may have a GL structure under which loans in 'Normal' status should report. You can maintain a different structure for loans in other status. To do this, click 'Accounting Entries' button in the 'Account Status' screen – the following screen is displayed:



Also, for a status, you may not want to change accounting roles but change only the accounts/GLs. The accounting roles will be the same. To achieve this, you can create a rule based 'Role to Head' mapping. The SDEs like 'Account Status' can be used to create the rule and if a loan satisfies the rule i.e. moves to the status maintained in the rule, the Account Head selected for the rule is used for posting the entries.

For a commitment product, the following amount tags are used for passing accounting entries:

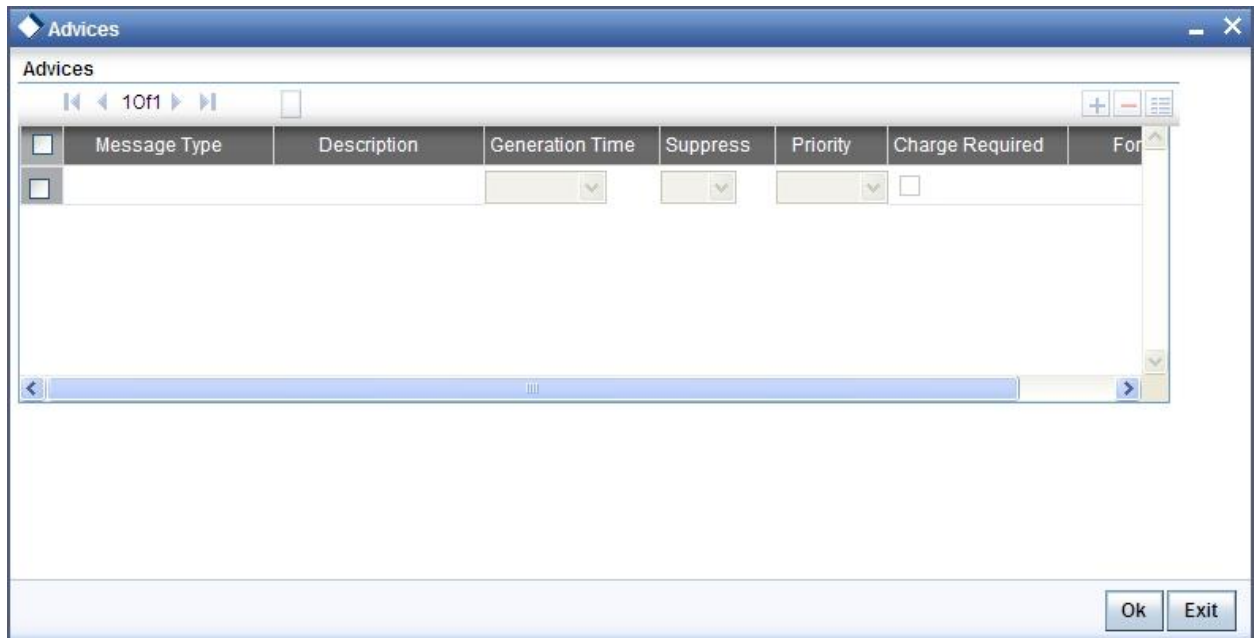
SI No	Amount Tag	Description
1	COMMUTIL_INCR	Commitment Amount Utilized
2	COMMUTIL_DECR	Commitment Amount Reinstated
3	COMM_UNUTIL	Commitment Amount unutilized

Refer the section titled 'Maintaining Role to Head mapping preferences' for details on creating a 'Role to Head' mapping.

4.6.6.4 Specifying Advices

You can also specify the advices that should be generated when a status change occurs. For instance, when a loan moves from an 'ACTIVE' status to an 'OVERDUE' status, you can choose to send an advice to inform the customer of the status change and request for payment.

The advices can be maintained in the 'Product Event Advices Maintenance' screen - click 'Advices' button in the 'Account Status' screen to invoke it.

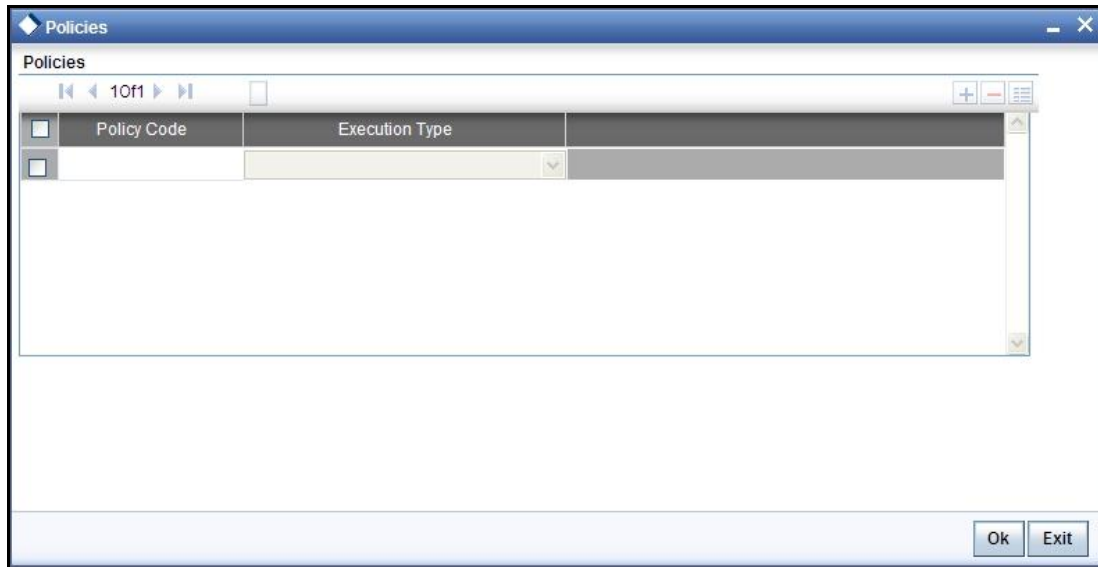


You can associate advices at an event level also.

For more details on maintaining advice preferences, refer the 'Maintaining Event details' section of this User Manual.

4.6.6.5 Specifying Policy Preferences

Just as you associate policies at an installment level, you can also associate policies for a loan account status. To do this, click 'Policies' button in the 'Account Status' screen of the product screen – the following screen is displayed:



Specify the following in this screen:

Policy Code

The policies defined in the 'User Policy' screen are available in the option list provided. Policies are used to handle special validations and operations on a loan.

Execution Type

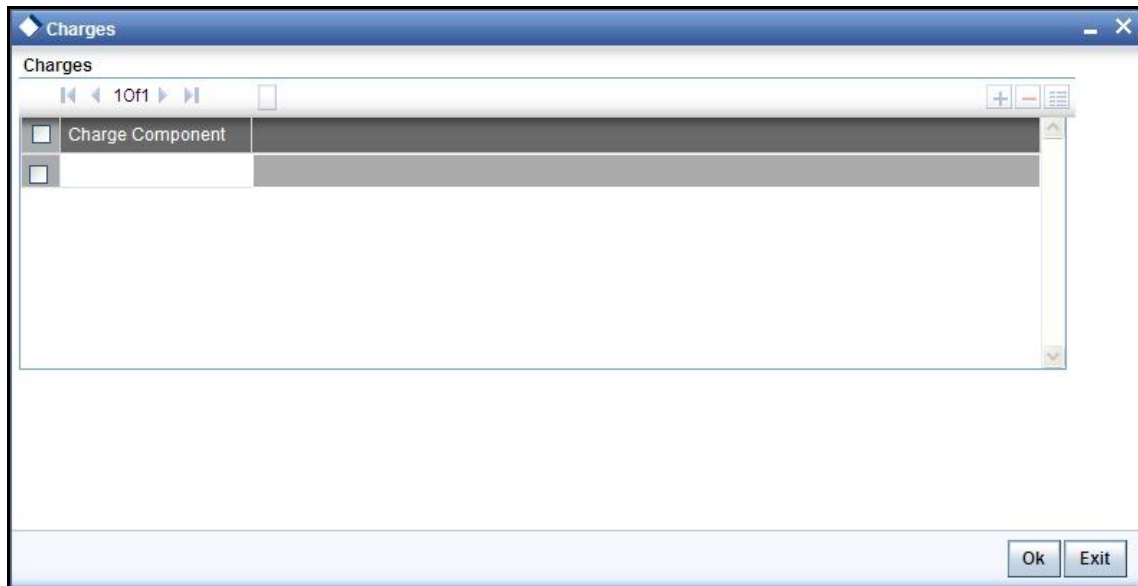
You can associate a policy at one of the following points in time in a loan-event lifecycle:

- Before Event
- After Event
- Both

The policy gets executed appropriately

4.6.6.6 Associating Charges

Whenever a loan undergoes a status change, you can apply charge on the loan. You need to associate charge components at a status level. To do this, click 'Charges' button in the 'Account Status' screen – the following screen is displayed:



The charge type of components defined for the product (in the 'Components' button of the screen) are displayed in the option list. Select the component you wish to associate with the loan. The charge is applied when the loan moves to the status and is debited to the customer account.

4.6.6.7 Processing at Account Level

At the account level, when there is a change in the status, Oracle FLEXCUBE will first check if accrual is required for the components. When the accrual frequency for a component is not 'Daily', Oracle FLEXCUBE will validate if the installment status or the account status changes before accrual execution date. If it changes, Oracle FLEXCUBE will trigger catch-up accrual for the component till the installment status and the account status change date. Subsequent to this, Oracle FLEXCUBE will process the installment status change and account status change.



Note the following:

- An installment status change will not change the next execution date of unprocessed ACCR events
- A status change is applicable for both manual and automatic account status
- If you delete an account level status change, it will delete the catch up accrual accounting entries also
- If you reverse an account level status change, it will reverse the catch up accrual accounting entries as well

4.6.6.8 Status definition for commitment accounts

Commitment product has the following user defined statuses:

- NORM – When collateral status is “Future”.
- ACNI – When collateral status is “Active” and collateral portfolio is “Retail” and Collateral Type is Real
- A8NI– When collateral status is “Active” and collateral portfolio is “Retail” and Collateral Type Non Real due to less than 80% coverage.
- ACNN – When collateral status is “Active” and collateral portfolio is “Retail” and Collateral Type Non Real
- ACMI – When collateral status is “Active” and collateral portfolio is “Commercial” and Collateral Type is Real
- A8MI – When collateral status is “Active” and collateral portfolio is “Commercial” and Collateral Type is non-real due to coverage percentage is less 80%
- ACMN – When collateral status is “Active” and collateral portfolio is “Commercial” and Collateral Type is Non Real.
- PENC – When collateral status is “Pending for Cancellation”
- COLLATERAL_PFOLIO: This SDE fetches any one of the following values
 - R – When all the associated loans are of retail type (Based on the loan class type).
 - C – When there is a single commercial loan (Based on the loan class type) linked to the collateral.
 - X – When collateral is not linked to any loan.
- COLLATERAL_STATUS : This SDE will fetch the collateral type i.e. collateral class code of the underlying collateral. This will have any one of the following values
 - F – Future
 - A – Active
 - P – Pending for Cancellation
 - C – Cancelled

Status movement rule is set-up for following movements as example for collateral category ‘HP’ (defined in ‘collateral category maintenance’ function ID GEDCOLCA):

From Status	To status	Rule
NORM	ACNI	LOAN_STATUS = 'NORM' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN ('HP')
NORM	A8NI	LOAN_STATUS = 'NORM' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN ('HM')
NORM	ACNN	LOAN_STATUS = 'NORM' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN ('HS')

From Status	To status	Rule
NORM	ACMI	LOAN_STATUS = 'NORM' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HP')
NORM	A8MI	LOAN_STATUS = 'NORM' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HM')
NORM	ACMN	LOAN_STATUS = 'NORM' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HS')
ACNI	NORM	LOAN_STATUS = 'ACNI' AND COLLATERAL_PFOLIO = 'X' AND COLLATERAL_CATEGORY IN('HP')
ACNI	A8NI	LOAN_STATUS = 'ACNI' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HM')
ACNI	ACNN	LOAN_STATUS = 'ACNI' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HS')
ACNI	ACMI	LOAN_STATUS = 'ACNI' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HP')
ACNI	A8MI	LOAN_STATUS = 'ACNI' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HM')
ACNI	ACMN	LOAN_STATUS = 'ACNI' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HS')
A8NI	ACNI	LOAN_STATUS = 'A8NI' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HP')
A8NI	NORM	LOAN_STATUS = 'A8NI' AND COLLATERAL_PFOLIO = 'X' AND COLLATERAL_CATEGORY IN('HM')
A8NI	ACNN	LOAN_STATUS = 'A8NI' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HS')
A8NI	ACMI	LOAN_STATUS = 'A8NI' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HP')
A8NI	A8MI	LOAN_STATUS = 'A8NI' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HM')
A8NI	ACMN	LOAN_STATUS = 'A8NI' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HS')
ACNN	ACNI	LOAN_STATUS = 'ACNN' AND COLLATERAL_PFOLIO = 'R' AND

From Status	To status	Rule
		COLLATERAL_CATEGORY IN('HP')
ACNN	A8NI	LOAN_STATUS = 'ACNN ' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HM')
ACNN	NORM	LOAN_STATUS = 'ACNN ' AND COLLATERAL_PFOLIO = 'X' AND COLLATERAL_CATEGORY IN('HS')
ACNN	ACMI	LOAN_STATUS = 'ACNN ' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HP')
ACNN	A8MI	LOAN_STATUS = 'ACNN ' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HM')
ACNN	ACMN	LOAN_STATUS = 'ACNN ' AND COLLATERAL_PFOLIO = 'C' AND COLLATERAL_CATEGORY IN('HS')
ACMI	ACNI	LOAN_STATUS = 'ACMI ' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HP')
ACMI	A8NI	LOAN_STATUS = 'ACMI ' AND COLLATERAL_PFOLIO = 'R' AND COLLATERAL_CATEGORY IN('HM')

Commitment status change is processed in CLBATCH.

4.6.7 Associating Notices and Statement

Just as you define components that should become a part of the product, so also you can associate Notices and Statements with a product.

The actual communication/correspondence, however, is handled by the Messaging Module of Oracle FLEXCUBE. Click 'Notices & Statements' button in the 'Product Maintenance' screen.

In this screen, you need to maintain the preferences for Billing Notices, Delinquency Notices, Rate Revision Notice, Direct Debit Notice and Statements. Also, you can associate multiple formats for the generation of notices and statements. The selection of a particular format is based on the condition.

Rule No/Condition No

You can assign a unique number for each rule/condition that is being maintained for notice and statement generation.

Condition

Define the conditions/rules for notice and statement generation. The system will evaluate the conditions and based on the one that is satisfied, the corresponding advice format is selected for notice/statement generation.

To maintain a condition, click 'Condition' button in the screen above. The 'Condition Builder' is displayed.

For details on building a condition using the options available in the screen, refer the section titled 'Defining UDE Rules' in the 'Maintenances and Operations' chapter of this User Manual.

Number Days

The Number of days indicates the period before the due date, when the system starts sending the Billing/Delinquency notices to customers.

This period is defined as a specific number of days and will begin before the date the repayment becomes due.

Format

For the condition defined, select the format in which the advice should be generated. The system will select the specific format of the message type when the condition maintained evaluates favorably. Frequency Days

Specify the frequency (in days) for generation of Delinquency Notices. The first notice is sent on the basis of the 'Num Days' maintained. For instance, if the 'Num Days' is four and the payment due date is 4th April 2004, the first notice will be sent on 31st March '04 (4 days before due date). Subsequent generation of the same notice is based on the frequency days maintained. If the 'Frequency Days' is '2', the second notice will be sent on 2nd April '04 i.e. the notice is sent once in two days only.

The following information is applicable to Statement generation:

Frequency

Indicate the frequency in which the Statements have to be generated. The available options:

- Daily
- Monthly
- Quarterly
- Half Yearly
- Yearly

Number of Days

The frequency captured here is used to get the next date for statement generation subsequent to the first statement. This will be used in combination with the 'Frequency' explained above.

Start Date

The date entered here is used as a reference to start generation of the statement

Example

The following example illustrates the manner in which the 'Frequency', 'Frequency Days' and 'Start Date' are used together:

Assume that you have maintained the following preferences for Statement generation:

Frequency: Monthly

Frequency Days: 2

Start Date: 1st Jan 2005

You open a loan account on 15th Jan 2005. The first statement for this loan will be generated on 1st February 2005 (Based on the Start Date and at a Monthly frequency). The second statement will be generated on 1st April 2005 (once in two months – based on the frequency days).

Message Type

Specify the type of Statement that should be generated. Statements are of the following types:

- Interest Statements
- Loan Statements

Generic Notice

Notice

Select the notice type of the rate plan from the list of options.

Rule Number

Specify the unique number for the rule maintained for notice. It is a running number starting from 1.

Condition

Specify the condition for notice generation. The system will evaluate the conditions and based on the one that is satisfied, the corresponding advice format is selected for notice.

Click 'Condition' button to maintain a condition in 'Product' screen. The 'Condition Builder' is displayed.

Format

Select the format of the advice to be generated from the list of options.

Number of Days

Specify the number of days required to intimate the customer in advance about the UDE rate change period.

Frequency

Select the frequency at which the notice has to be generated from the adjoining drop-down list. This list displays the following values:

- Daily
- Monthly
- Quarterly
- Half Yearly
- Yearly

Tenor

Specify the tenor at which the notice has to be generated.

Start Date

Specify the date on which the notice has to be generated.

Transaction Code

Specify the identifier code of the transaction.

Interest Rate Revision within the Rate Revision Period

The Rate Revision Notice section allows you to maintain the number of days for the generation of the advice, prior to the scheduled date of rate revision. During End of Day if the notification date is less than or equal to schedule date, a Rate Revision Advice is generated.

The four different conditions for the rate revision will be handled in Oracle FLEXCUBE as follows:

- Condition 1:

Once the interest revision date is reached, the system continues to use the same interest rate code, till the next revision date.

- Condition 2

If the request for change in interest rate is received a few days before the scheduled revision date, the interest rate code of the loan account is changed by value dated amendment, with the effective date as the scheduled interest revision date. On the effective date, the system changes the rate code and picks up the new interest rate

- Condition 3

If the request is for a future dated prepayment of the loan account there is no change in the interest rate, the principal is changed depending on the prepaid amount and once the payment is available in the settlement account, you can liquidate the loan manually with the requested effective date.

An outstanding component breakup of prepayment penalty charges if applicable is sent to the customer.

- Condition4

If the request for interest rate revision is made much before the scheduled revision date, you can change the interest rate code of the loan account by value dated amendment with effective date as requested.

The rate revision will be applicable on the total principal outstanding amount.

4.6.8 Specifying Events

A contract goes through different stages in its life cycle. In Oracle FLEXCUBE, the different stages a contract passes through in its life cycle are referred to as 'Events'.

At an event, typically, you would want to post the accounting entries to the appropriate account heads and generate the required advices. When setting up a product, you can define the accounting entries that have to be posted and the advices that have to be generated at the various events in the life cycle of loans involving the product.

Therefore, for the required events you have to specify the Accounting entries, Charges, Policies and Advices. To do this, click 'Events' button in the 'Product Maintenance' screen – the following screen is displayed.

The screenshot shows the 'Events' window in Oracle FLEXCUBE. The window has a title bar with a diamond icon and the text 'Events'. Below the title bar, there are two input fields: 'Product Code' and 'Product Description'. Underneath these is a section titled 'Class Details' which contains two input fields: 'Class Code' and 'Class Description'. To the right of the 'Class Code' field is a button labeled 'Default'. Below the 'Class Details' section is a table titled 'Events'. The table has two columns: 'Event Code' and 'Description'. There are two rows in the table, each with a checkbox in the first column. Above the table, there are navigation icons (back, forward, search) and a '10 of 1' indicator. At the bottom of the window, there is a tabbed interface with five tabs: 'Accounting Entries', 'Policies', 'Advices', 'Charges', and 'Event Fields'. The 'Event Fields' tab is currently selected. In the bottom right corner, there are two buttons: 'Ok' and 'Exit'.

Specify the following:

Class Code

Select the class code from the adjoining option list. The list displays all the class codes maintained in the system.

Click 'Default' button to default the events maintained for the selected class. You can select the required events for the product you are defining. You can also define new events apart from the defaulted events.

Event Code and Event Description

These are the events for which the accounting entries, advices, policies and charges will be maintained, individually. The event codes applicable for the module are available in the option list provided. This list also includes user defined events set up for the module. Select the relevant events for the product from this list.

The description for the event chosen is also displayed



For a commitment product the following events are used:

- LINK
- DLNK
- CLOC

The following events should not be maintained for a commitment product:

- BADJ
- CLOS
- REOP
- RNOG
- ROLL
- SROL
- YACR
- NOVA
- REVV
- REVL
- PWOFF

An event PWOFF (Partial Write Off) is used when a loan is partially written off by the Bank.

For more information on this topic refer section 'Partial Write- Off of Loans' in this manual.

For processing the changes in the EMI amount of a customer, the EMIC (EMI Change) event is used. The charges and advices can be linked to the EMIC event at the product level. You can liquidate the charges by using the _LIQD amount tags.

Refer the Products User Manual under Modularity for further details.

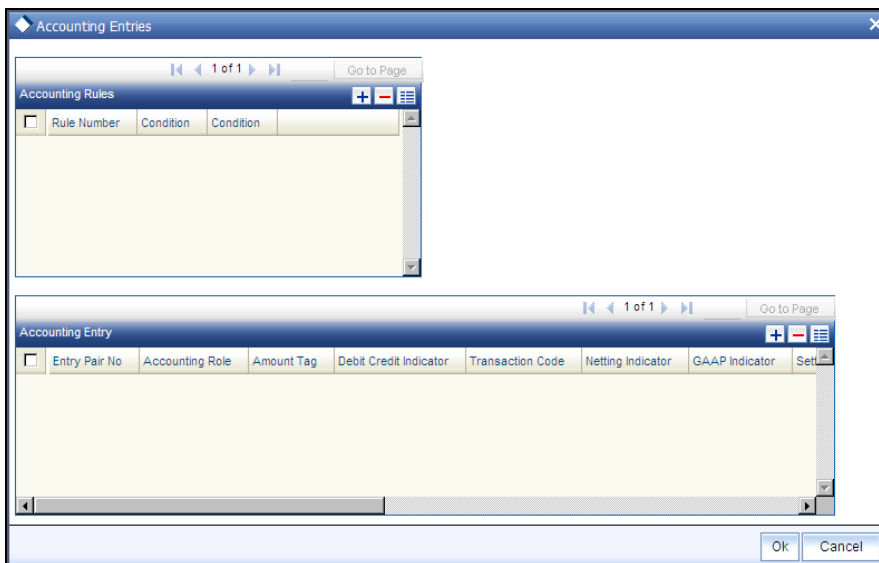
Events for the Commitment product are as follows:

Event	Description	Dr/Cr	Accounting Role
INIT	Creation of Limit	Cr	CONASSETOFF

Event	Description	Dr/Cr	Accounting Role
		Dr	CONASSET
LINK	Utilization of Limit	Cr	CONASSET
		Dr	CONASSETOFF
DLNK	Recovery of Limit	Cr	CONASSETOFF
		Dr	CONASSET
CLOC	Closure of Limit	Cr	CONASSET
		Dr	CONASSETOFF

4.6.8.1 Defining Accounting Entries

To define accounting entries for an event, click 'Accounting Entries' in the 'Events' button – the 'Product Event Rule Based Entries' screen is displayed.



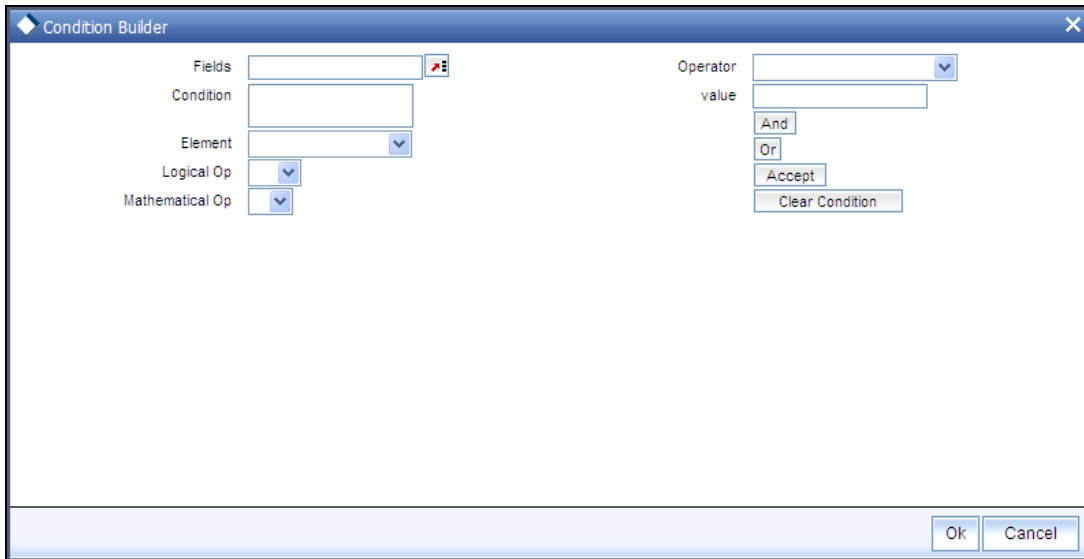
With the Rule definition builder, you can maintain different set of accounting entries for different conditions.

Rule Number

Every rule/condition you define for a product should be assigned a unique number. The rule number can consist of a maximum of 5 digits

Case

You can use the 'Condition Builder' to define a rule. Click on 'Condition' in the above screen to invoke it



You can define a rule using the SDEs like Tenor, Customer Risk Category and other UDFs.

If you do not specify a rule/condition, the accounting entries become applicable to all conditions.

For details on building a condition using the options available in the screen, refer the section titled 'Defining UDE Rules' in the 'Maintenances and Operations' chapter of this User Manual.

Accounting Role

Select the accounting role that should be used at the event. The option list displays all the accounting roles specified for the product in the 'Role To Head' button of the 'Consumer Lending Product' screen. Select the role appropriate for the event.

Amount Tag

Specify the amount tag applicable for the Accounting Role. An amount tag identifies the amount/value that is actually due for a component. Depending on the components defined for the product, the system dynamically creates a set of amount tags. For instance, if the component is 'MAIN_INT', the following amount tags are automatically created:

- MAIN_INT_RESID - Component Amount Residual
- MAIN_INT_ADJ - Component Amount Adjustment
- MAIN_INT_LIQD - Component Amount Liquidated
- MAIN_INT_ROLL - Component Amount Rolled over
- MAIN_INT_CAP - Component Amount Capitalized
- MAIN_INT_ACCR - Component Amount Accrued
- MAIN_INT_DLIQ - Component Amount Paid against Due Schedules/future not-due schedules
- MAIN_INT_OLIQ - Component Amount Paid against Overdue Schedules
- _INT_INC_REVR - Component Amount Reversed

The ‘_DLIQ’ and ‘_OLIQ’ tags will be generated only for the events LIQD and ROLL.

Select the appropriate amount tag from this list

Debit or Credit

Here, you have to specify the type of accounting entry to be posted – the entry can be a debit entry or a credit entry.

Transaction Code

Every accounting entry in Oracle FLEXCUBE is associated with a Transaction Code that describes the nature of the entry. Specify the transaction code that should be used to post the accounting entry to the account head. You can group all similar transactions under a common transaction code. The transaction codes maintained in the ‘Transaction Code Maintenance’ screen are available in the option list provided.

Netting

Specify whether accounting entries should be netted at an event. You can net the accounting entries that are generated at an event by selecting ‘Yes’ from the drop down list. The system will then net the entries and show the resultant value in account statements. If you do not net, the entries will be shown separately in the statements.

MIS Head

An MIS Head indicates the manner in which the type of entry should be considered for profitability reporting purposes. This classification indicates the method in which the accounting entry will be reported in the profitability report. It could be one of the following:

- Balance
- Contingent Balance
- Income
- Expense

You can also link a product to an MIS Group if you do not want to define individual entities for the product.

Refer the section titled ‘Associating an MIS Group with the product’ in this chapter for more details.

Revaluation Required

Online Revaluation refers to revaluation done on transaction amounts during transaction posting, and not as part of an end-of-day process. The Revaluation profit /loss are booked to the Online ‘Profit GL’ or Online ‘Loss GL’ that you maintain for the GL being revalued.

You can opt for online revaluation by selecting the ‘Reval Reqd’ option.

Profit GL and Loss GL

If you have opted for online revaluation and the result of revaluation is a profit, the profit amount is credited to the Profit GL you select here. Similarly, if the result of revaluation is a loss, the loss amount is credited to the Loss GL you specify here.

Reval Txn Code

If you opt for online revaluation, you need to associate the transaction code to be used for booking revaluation entries. The system will use this transaction code to track the revaluation entries.

Holiday Treatment

Specify whether holiday treatment is applicable for processing accounting entries falling due on holidays. Select one of the following:

- Yes
- No

Rate Type Indicator

Select the rate type indicator used for revaluation purpose from the drop-down list. Following are the options available in the drop-down list:

- Mid
- Buy
- Sale

GAAP

Indicate the GAAP indicators for which the accounting entry is required for reporting under multi GAAP accounting. The adjoining option list shows all the GAAP indicators maintained in the system. Choose the appropriate one.

The system will then post entries into the specified books (GAAP indicators) during the different events that occur in the lifecycle of the loan. You can retrieve the balance for a certain component in an account in a specific status, for a given GAAP indicator, in a certain branch, reporting to a certain GL. The system will show the real and contingent balances accordingly.

Split Balance

Specify whether you need the balances to be split or not. If you check this option, the system will store the balance break-up for the specified GAAP indicators. You can then retrieve the balances separately for the different GAAP indicators to which accounting entries are posted for the loan.

If you need to move the balances from multiple/Single GLs, where the balances are currently lying, check this box. In such case the credit leg will be governed by the GLs from where component balances need to move, and not the GL maintained at the product level for the event.



For partial write off (PWOFF event) you need to check this box to split balance for all the credit legs of PWOFF event.

For example:

For ALIQ event, the maintenance is as follows:

Dr/Cr	Role	Settlement Reqd	Amount Tag	Spilt Balance
Dr.	DR_SETTL_BRIDGE	Y	MAIN_INT_LIQD	N
Cr.	INTEREST RECEIVABLE (say GL-000)	N	MAIN_INT_LIQD	Y

However, the balance for interest is lying like this: 500 (GL-001) and 200 (GL-002) Lets say we are liquidating 700 against MAIN_INT component.

In this scenario, finally system will pass the following entries:

- Dr Customer A/c 700
- Cr GL-001 500
- Cr GL-002 200

In case Split balance is set to NO for Cr leg the entry would have been:

- Dr Customer A/c 700
- Cr GL-000 700

When you are building new balances into GLs, you need to uncheck this option for the credit leg also. In such cases accounting will go by the maintenance of the GLs/account done for the event.

For Example:

If you want to move ACCRUED_AMOUNT from one GL into another GL, and also build one parallel entry for the same in OFF BALANCE sheet, then in such case for the movement pair, you will maintain split balance as Y for the credit leg. For the new balance into OFF BALANCE sheet, you will maintain the split balance as N for both the legs.

When you need to reverse the contingents, for both the credit and debit leg, the GLs will be governed by the GLs where the balances are currently lying then you need to set it to CONTRA.

This means that if the accounting entry setup is like this:

Dr/Cr	Role	Settlement Reqd	Amount Tag	Spilt Balance
Dr.	CONT-001	N	MAIN_INT_OVD1_REAL	N
Cr.	CONT-002	N	MAIN_INT_OVD1_REAL	Y

And if balances (say 50 for the component) for MAIN_INT_OVD1_REAL are lying in CONT-003 AND CONT-004 GLs. (This kind of setup means while doing status movement, you are building one parallel set of entry into contingents)

With this setup, system will pass the entry like this

- Dr CONT-003 50
- Cr CONT-004 50

If for both the legs, split is set to NO, then system will pass the following entries instead:

- Dr CONT-001 50
- Cr CONT-002 50

Balance Check in Batch

Indicate whether the balance check is required for the batch operations/online processing.

The options available are:

- Reject – The transaction is rejected if there is insufficient fund to process the transaction.
- Delinquency Tracking – The transaction is processed. If you have specified delinquency tracking for the accounting entries, the tracking is done according to the parameters you have defined for the Delinquency Product.
- Force Debit – The transaction is processed. However, no delinquency tracking is done even if the account goes into overdraft.
- Partial Liquidation – The transaction is processed. If you have specified partial delinquency, the system liquidates upto the available amount and the delinquency tracking is done on the remaining amount only.

Delinquency Product

In case you have specified delinquency tracking for balance check type, you need to specify the delinquency product under which the entry is tracked. The option list displays all the delinquency product codes maintained in the Oracle FLEXCUBE. Select the appropriate from the option list.

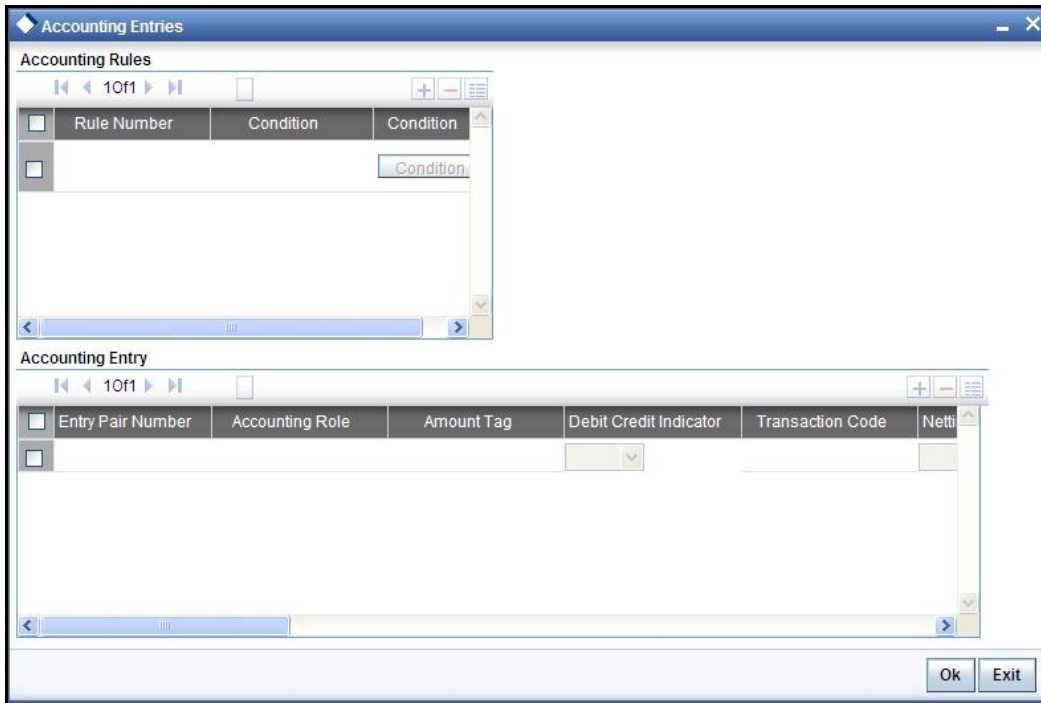
Settlement

This field used to settle the amount. If it set as yes, while doing settlement system uses the Account used during amount settlement. If it is no it will use default account, which is mapped in role to head.

If you have selected the 'Accounting Role' as DR_SETTL_BRIDGE or CR_SETTL_BRIDGE in and if 'Settlement' box is checked then system looks at the default settlement accounts maintained in the Debit settlement Mode and Credit settlement mode. If 'Settlement' box is not checked then the system tries to arrive at the GL through Role to Head Mapping.

4.6.8.2 Defining Accounting Entries for a Securitized Loan

Oracle FLEXCUBE provides a facility to transfer the payments related to Principal/Interest/Charges to SPV's settlement account for a securitized loan. Accordingly, you need to define the conditional based accounting entries. Thereby system automatically posts the entries to the respective account after validating the rule (LOAN_STATUS ='SECR') defined.



Here the system allows you to define the condition for the accounting entries in 'Accounting Rules' section. For each condition, you need to define accounting entries in the 'Accounting Entry' section. The system executes the first successful condition and executes the corresponding accounting entries. It does not execute the other conditions if any one of the condition is satisfied in the defined order (conditions should be mutually executive cases).

4.6.8.3 Specifying Advices for an Event

You can select the advices that should be triggered for various events. These advices can be simple Debit /Credit advices when any payment or disbursement is made, Rate Revision advices, Loan advices etc.

To specify the advices for an event, click 'Advices' in the 'Events' button of the 'Product Maintenance' screen – the following screen is displayed.

Rule Number	Condition	Condition
<input checked="" type="checkbox"/>	undefined	Condition

Message Type	Description	Generation Time	Suppress	Priority	Charge Required
<input checked="" type="checkbox"/>					<input type="checkbox"/>

The following advice details have to be maintained in the screen:

Message Type

Select an advice from the option list provided. The advices applicable for the module are available in this list. When you select an advice, the description is displayed in the adjacent field.

Generation Time

The 'Trigger' indicates the appropriate time at which the advice is to be generated. You can indicate whether the advices specified for the product should be generated when the event takes place (Input) or at authorization.

Suppress

This option may be used if you want to suppress the generation of some advices

Priority

You can indicate the importance of the advice generation. The priority may be:

- High
- Medium
- Low

Charges

You may check this option to collect charges for advice generation.

You can specify a definite format for advice generation. The formats maintained through the 'Format File Maintenance' are available in the option list. Select the appropriate format from this list.

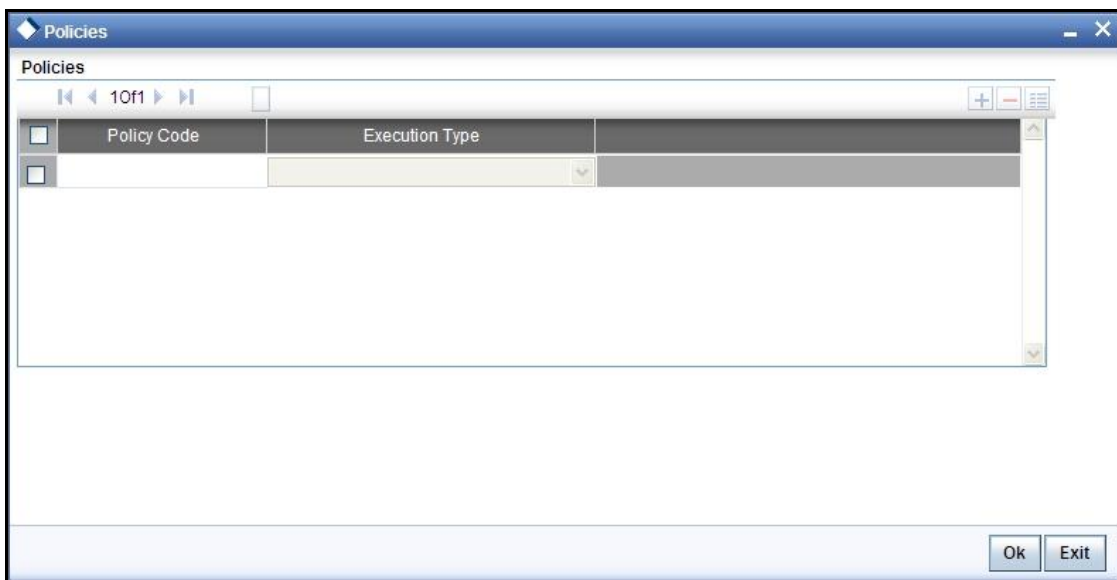
For a detailed list of Events, Advices, Accounting Roles and Amount Tags, refer 'Annexure 1' of this User Manual.

4.6.8.4 Defining User Defined Policies

Policies are user defined validations that will be fired when any event is triggered. These can even be policies which govern the firing of an event under certain conditions.

For example, if an operation called payment is being done and the customer is paying an amount greater than his current overdue and one additional installment, you can associate a policy to disallow the payment. Therefore, you have to associate policies to an event.

Click on 'Policies' in the 'Events' button of the screen to define the policies that should be executed for an event.



You can select the appropriate policy from the option list provided. The policies defined in the 'User Policy' screen are available in this list. You should also specify the instance when the policy should be triggered for the event. The options are:

- Before Event
- After Event
- Both

You need to maintain the site policies 'SPCL_COND_POL' and 'CUST_BLK_POL' to prevent the loan account with special conditions from performing restricted events and to prevent the customer, whose credit facilities are blocked.

The 'SPCL_COND_POL' policy will be linked with financial events that require verification of special condition and 'CUST_BLK_POL' policy will be linked to loan booking event (BOOK), disbursement event (DSBR) and amendment event (VAMB).

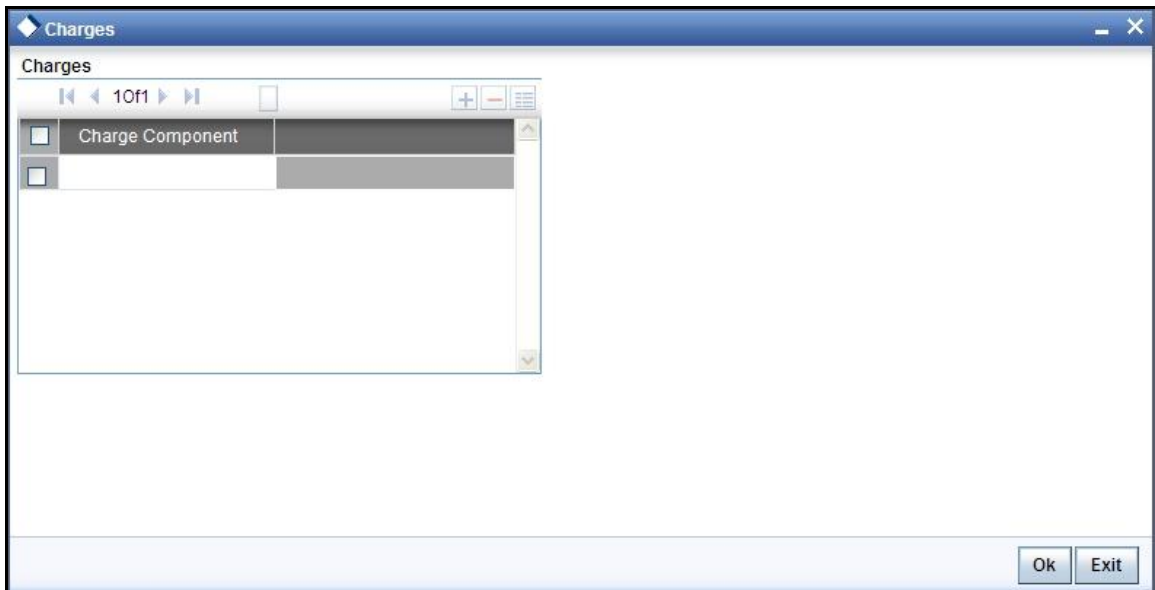


SPCL_COND_POL policy will rely on history data for back value dated events.

4.6.8.5 Associating Charges

You can associate charges to an event. Linking a charge to an event implies calculating the value of the charge.

To associate charges, click 'Charges' in the 'Event' button of the screen



The charge type of components defined for the product (in the 'Components' button of the screen) are displayed in the option list. Select the component you wish to associate with the event.

4.6.9 Associating MIS Group

You can associate MIS details with a product in the 'MIS' screen. Click 'MIS' button in the 'Consumer Lending Product' screen to invoke it.

The screenshot shows a window titled "MIS Details" with the following elements:

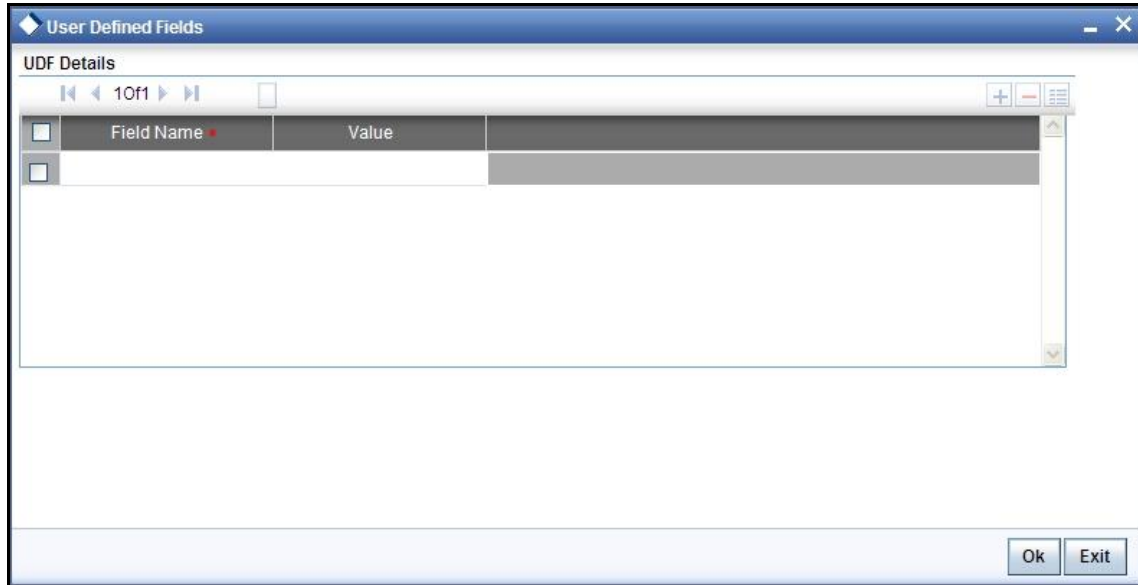
- Product Code: _____
- MIS Group: _____
- Pool Code: _____
- Default From MIS Group:
- MIS Classes: A table with columns "MIS Class" and "MIS Code". The table is currently empty.
- Cost Code: _____
- Buttons: Ok, Exit

In this screen, you can associate an 'MIS Group' to which the product should be linked (if it is applicable; if not, you can define the individual entities under which the product should be reviewed).

To associate a group, check the 'Link Group' option. If a group is linked, the entities defined for the group will be displayed. Only the Transaction MIS Code will be applicable to a product. The specific MIS entity (in the form of an MIS Code) will be picked up by default only if you have defined them for the group. If not, you have to indicate the appropriate MIS code for each applicable MIS class.

4.6.10 Defining User Defined Fields

You can associate user defined fields to a product by using the 'User Defined Fields' screen.



Here you can capture the following details:

Product Code and Description

The system displays the product code and its description from the main screen.

Field Number

The system displays the field number.

Field Name

Specify the name of the UDF. The adjoining option list displays all UDFs maintained in the system. You can select the appropriate one.

4.6.11 Specifying Credit Score Details

You need to maintain the rules for calculating the credit score of a customer. You can do this in the 'Credit Score' screen which can be invoked by clicking 'Credit Score' button in the 'Product Maintenance' screen.

Line	Result	Condition	Condition	Rule Name
		Condition		

You can maintain the following details in this screen:

Rule Name

Specify a suitable name for the credit scoring rule.

Default Rule

Check this box if you want to select this rule as the default rule, which gets defaulted to the account.



You can maintain only one rule as the default rule.

Line

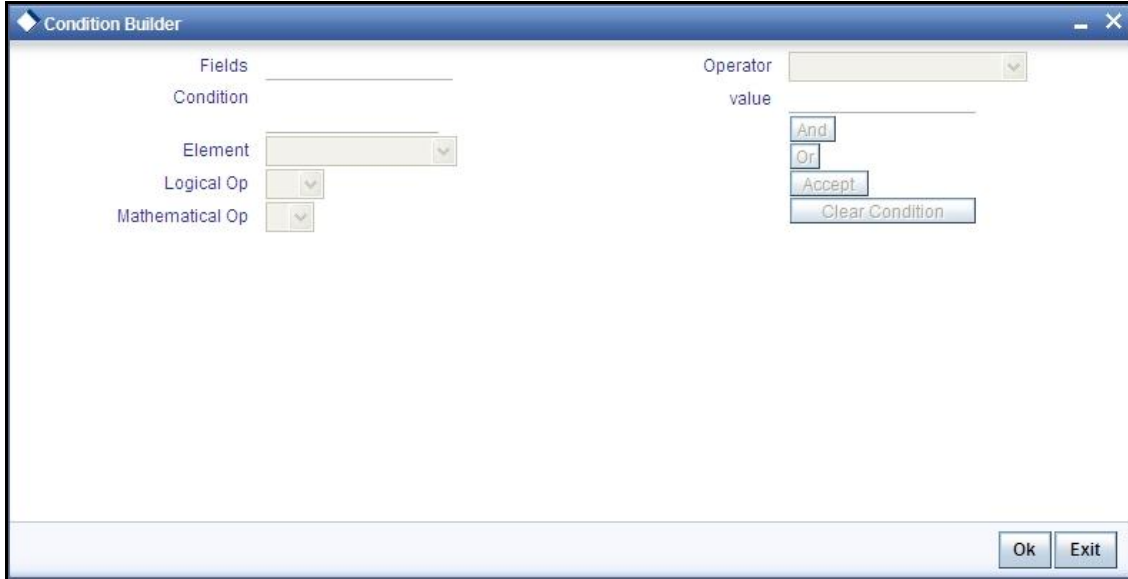
Specify a sequence number, to keep track of the number of expressions maintained for that rule name.

Result

Specify the expected result of the condition to be satisfied.

Condition

You need to specify the condition to be satisfied for the rule by clicking the 'Condition' button. You can specify the condition in the 'Condition Builder' screen, which gets invoked.

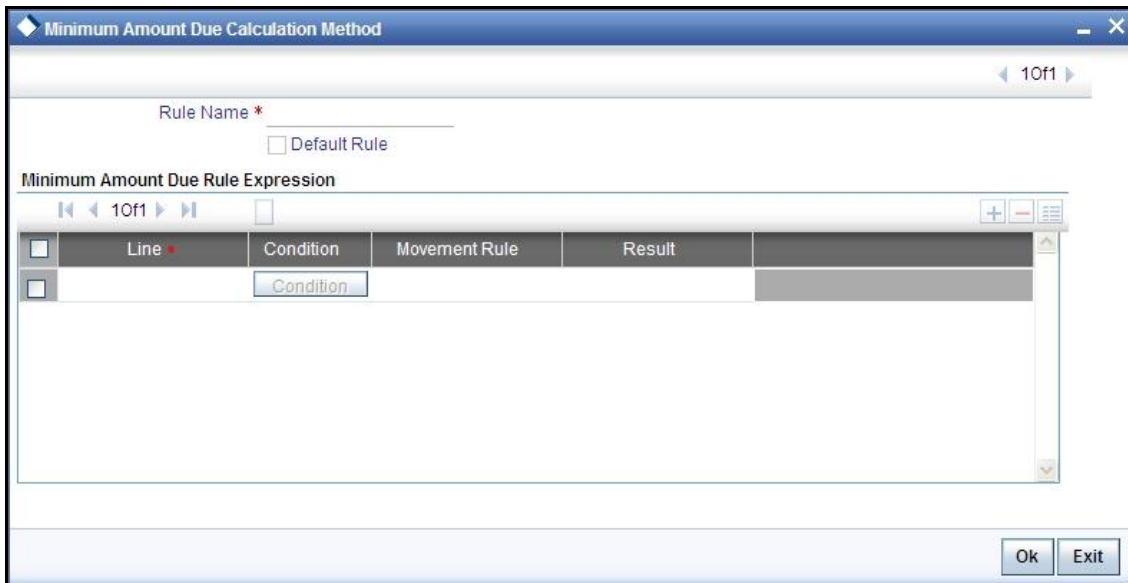


The screenshot shows the 'Condition Builder' dialog box. It has a title bar with a diamond icon and the text 'Condition Builder'. The main area contains several fields and buttons:

- 'Fields' and 'Condition' are text input fields.
- 'Element' is a dropdown menu.
- 'Logical Op' and 'Mathematical Op' are dropdown menus.
- 'Operator' is a dropdown menu.
- 'value' is a text input field.
- Buttons: 'And', 'Or', 'Accept', and 'Clear Condition' are stacked vertically.
- 'Ok' and 'Exit' buttons are at the bottom right.

To specify the condition, you need to select the field name, operator and the value and click 'Accept'.

4.6.12 Maintaining Minimum Due Calculation Method

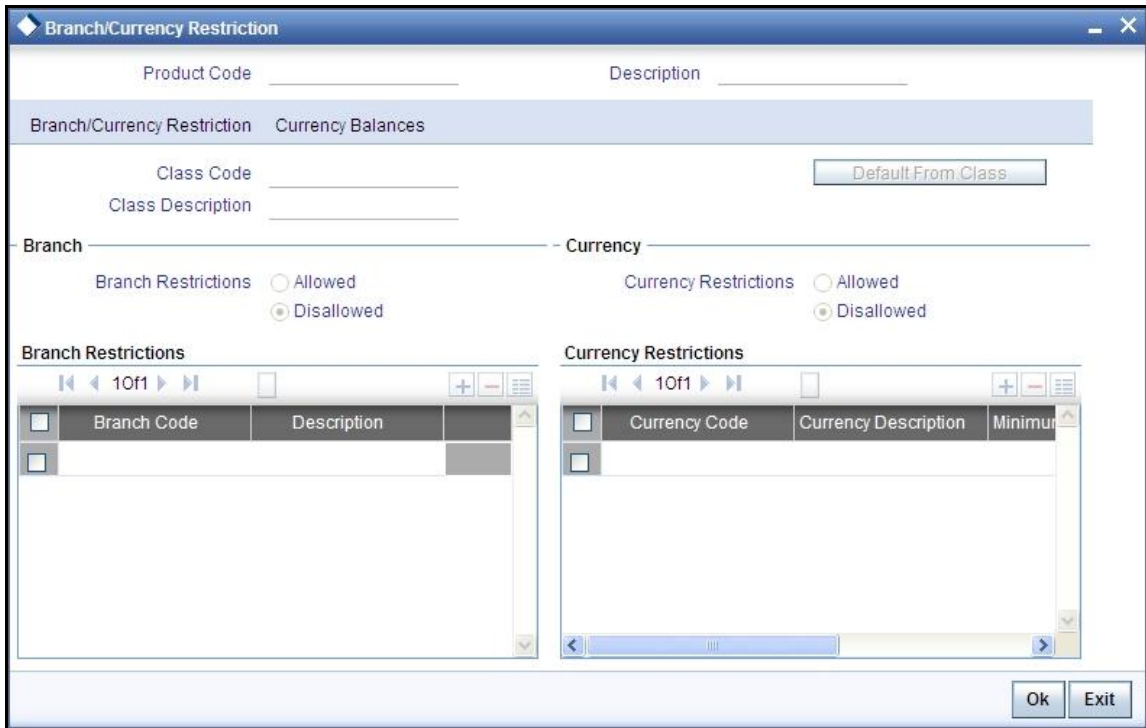


The screenshot shows the 'Minimum Amount Due Calculation Method' dialog box. It has a title bar with a diamond icon and the text 'Minimum Amount Due Calculation Method'. The main area contains:

- 'Rule Name *' is a text input field.
- 'Default Rule' is a checkbox.
- 'Minimum Amount Due Rule Expression' is a section with a table.
- The table has columns: 'Line', 'Condition', 'Movement Rule', and 'Result'.
- There is a 'Condition' button in the 'Condition' column of the first row.
- 'Ok' and 'Exit' buttons are at the bottom right.

4.6.13 Maintaining Branch/Currency Restrictions

The loan products created in the Head Office Bank (HOB) are available across all the branches subject to the branch restrictions maintained for the product. Likewise, you also restrict the products to select currencies. To achieve this, you can maintain a list of allowed/disallowed branches and currencies. Click on the 'Branch/Currency Restriction' button in the product screen.



4.6.13.1 Branch/Currency Restriction Tab

The following details are captured here:

Under Branch and Currency Restrictions respectively, two columns are displayed.

- Allowed List
- Disallowed List

The allowed or disallowed column that is displayed would depend on the list type that you choose to maintain. For instance, if you choose to maintain an allowed list of branches, the column would display the branches that you can opt to allow.

In the Branch Restriction and Currency Restriction Section, click on the adjoining option list to invoke a list of bank codes and currencies codes respectively that you have maintained in your bank. Select an appropriate code.

Using the Add or Delete icons, you can add/delete a branch or currency from the corresponding allowed/disallowed column that you have maintained.

STOP When you create a product, it is, by default, available to all the branches of your bank, in all currencies, and for all customers unless restrictions are explicitly specified for the product.

Minimum Amount

Specify the minimum amount for all the allowed currency maintained at the product level.

Maximum Amount

Specify the maximum amount for all the allowed currency maintained at the product level.

STOP System checks the following:

- At the product level, if the minimum amount is less than the maximum amount
- At the Loan Contract screen, if the amount financed falls in the range of minimum and maximum amount derived from product for the currency same as the loan currency

4.6.13.2 Currency Balances Tab

The screenshot shows a software window titled "Branch/Currency Restriction" with a "Currency Balances" tab selected. At the top, there are input fields for "Product Code" and "Description". Below these, the "Currency Balances" section contains a table with the following columns: "Currency Code", "ATM Cash Limit", "Residue Amount", "Negative Residue Amount", and "Round Up/Down". The table is currently empty. Navigation controls (back, forward, search) are visible above the table. At the bottom right of the window, there are "Ok" and "Exit" buttons.

You can maintain the following currency balance details:

Currency

You can specify the transaction limit for a currency while defining currency restrictions for a product. Choose the currency code from the option list.

Residual amount

Here, you have to capture the minimum amount by which, if a component of a schedule becomes overdue, the system will consider it as paid.

Negative Residue Amount

If the difference between the amount paid (COMPONENT_EXPECTED) and the amount due is less than the residue amount specified here, then the difference is treated as an income otherwise the transaction is rejected.

In the case of an income, the installment schedule is marked as completely settled/paid and the income is posted to the residual suspense GL. This triggers the event called 'RESID' (Residual) and the following entries are passed:

Accounting Role	Amount Tag	Dr/Cr
Loan Account	RESIDUAL_AMOUNT	Cr
Residual Suspense	RESIDUAL_AMOUNT	Dr

ATM Cash limit

Here, you can enter the maximum non- Cash transaction amount for the currency that you have defined. The ATM transaction amount cannot exceed the value given here.

Rounding Factor (EMI)

Specify the rounding factor if the EMI is to be rounded.

It is mandatory for you to specify the rounding factor if you have maintained the rounding parameter.

Emi Round Up Down

Indicate whether the EMI should be rounded up or down.

- Choose 'UP' in case you want to round the number to the next decimal value.
- Choose 'DOWN' if you want to truncate the number to the previous decimal value

The principal component of the EMI is adjusted based on the rounded EMI amount.

Numerator Method

Specify the day count method for the numerator for each currency applicable to the product. The following options are available in the drop-down list:

- Actual
- 30 Euro
- 30 US

Choose the appropriate one. This value will be used for calculation of the Net Present Value (NPV).

Denominator Method

Specify the day count method for the denominator for each currency applicable to the product. The following options are available in the drop-down list:

- 360
- 365

Choose the appropriate one. This value will be used for calculation of the Net Present Value (NPV).

Residual Amount in Bullet

Specify the maximum residual amount that should be allowed to be waived in bullet schedule.

Percentage of Residual Amount

Specify the maximum percentage of residual amount that can be charged in the next installment.

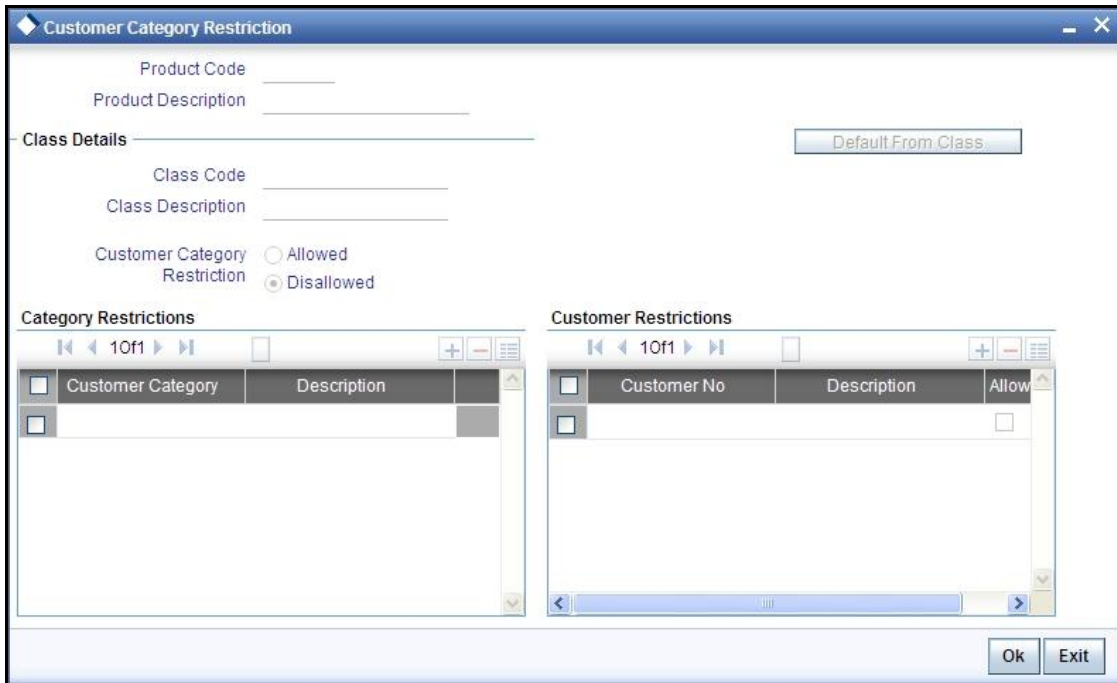
Residual Amount in Intermediate

Specify the maximum residual amount that is allowed to be carried forward to the next installment.

4.6.14 Restricting Customer Categories

Just as you can maintain a list of allowed/disallowed branches and currencies for a product, you can maintain a list of allowed/disallowed customer categories.

You can maintain several restrictions for each customer category.



You can restrict customers from availing a product by maintaining an 'allowed' list or a 'disallowed' list of customer categories.

Only customer categories that are a part of an allowed list maintained for a product *can* avail the product. Likewise, customer categories that are part of a disallowed list *cannot* avail the product or service.

The allowed or disallowed column that you view depends on the list type that you choose to maintain. For instance, if you choose to maintain an allowed list, the column would display those customer categories that you choose to allow.

You can move a category to the allowed/disallowed column, using the Add or Delete icons.

Dedicated Products for Bank Employees

Customer information file of all the bank employees have this customer category associated with it.

Products maintained for bank employees have product restrictions defined on the basis of customer category. In other words, products those are available to only bank employees have appropriate customer category maintained in the allowed list of customer category. This prevents the use of employee specific products by other customers

4.6.14.1 Allowing Access to Special Customers

Depending on the customer restriction you specify – allowed or disallowed, you can further maintain a list of customers who are allowed (for a ‘Disallowed’ list) or specific customers who are not allowed to use the product (in the case of an ‘Allowed’ list). For example, you may disallow the customer category ‘CORPORATES’ from availing a certain loan product. However, you may want to allow ‘Cavillieri and Barrett’ (belonging to the category ‘CORPORATES’) to avail the product.

Select the name of the customer from the option list provided. The ‘Customer Name’ is displayed after you select the customer id.

If the selected customer belongs to a category which is ‘Disallowed’ for the product but you want to allow the customer, check the ‘Allowed’ option. Similarly, if the customer belongs to a category that is ‘Allowed’ but you want to disallow the customer, do not check the ‘Allowed’ option.

4.7 Processing of IRR Application on Loans

The internal rate of return (IRR) is the interest rate received for an investment consisting of payments (negative values) and income (positive values) that occur at regular periods. It is computed for a series of cash flows represented by the numbers in values. These cash flows may not be even, as they would be for an annuity. IRR is computed only when the cash flows occur at regular intervals, such as monthly or annually.

IRR is closely related to NPV - Net Present Value. The rate of return calculated by IRR is the interest rate corresponding to a 0 (zero) NPV. NPV measures the additional market value that the management expects the project to create (or destroy) if it is undertaken. It is computed using a discount rate and a series of future payments (negative values) and income (positive values).

IRR for loan accounts (where applicable) is calculated when the YACR event is triggered and the corresponding batch is run. You need to set up certain specific accounting entries for this event.

Refer the chapter titled ‘Annexure A: Accounting Entries and Advices’ in this User Manual for the details of the accounting entries.

The system identifies the acquisition type of the product during account creation. For the account, it derives the acquisition type based on the following parameters:

For asset accounts (loans), if:

- Inflow>Outflow, then Acquisition type will be ‘Discount’
- Inflow=Outflow, then Acquisition type will be ‘Par’
- Inflow<Outflow Acquisition type will be ‘Premium’

It calculates the constant yield or IRR during the initial disbursement of account using the following formula:

$$\left[\sum_{i=1}^N \frac{CF_i}{(1 + IRR)^{\left(\frac{d_i - d_1}{D}\right)}} \right] = 0$$

Where:

- **N** - Number of cashflows including the net cash flow on the contract value date (Initial disbursement record)
- **CF_i** - *i*th Cashflow
- **IRR** - Internal Rate of Return for the contract
- **d_i** - Date of *i*th Cashflow
- **d₁** - Date of 1st Cashflow (the first disbursement date)
- **d_i-d₁** - Number of Days based on the Numerator Daycount Method
- **D** - Denominator Daycount Method

The IRR is computed in an iterative method by taking the contract interest rate as the initial guess. In case of loan amendment and prepayment, the cash flows are re-computed and used for IRR calculation post amendment/prepayment. The formula used for recomputation is the same as that used for the initial computation.

For subsidy loan, the IRR is computed based on the overall percentage of both the interest and subsidy component, if and only if the 'IRR is Applicable' field is checked in the both components. Else the component in which the "IRR is Applicable" field is checked, will be considered for IRR computation.

4.7.1 Recalculation of IRR with new effective date

In case of Bearing and Amortized accounts, IRR recalculation will be done using a new effective date, during the following events:

- Manual disbursement
- Value Dated Amendment with schedule redefinition
- Prepayment
- Floating Rate Revision
- Value Dated Increase of Principal

- Value Dated Maturity Date Change
- Value Dated Rate Revision
- Rollover
- Version reversal
- Up-front fee Amendment

For such accounts, a new charge is levied on the following events:

- Value Dated Amendment Initiation (VAMI)
- Rollover (ROLL)
- Partial prepayment(MLIQ)
- Account status change (STCH)
- Installment status change (STSH)

In case of Discounted accounts, IRR will be re-calculated using a new effective date, during the following events:

- Rollover
- Up-front fee Amendment

For such accounts, a new charge is levied on the following events:

- Value Dated Amendment Initiation (VAMI)
- Rollover (ROLL)
- Partial prepayment(MLIQ)

During the event 'Value Dated Amendment with Schedule Re-definition', IRR is recalculated with the currently active IRR effective date.

IRR re-calculation has to be done during reversal of partial and full prepayment, if the prepayment triggered recalculation of IRR.

In case of partial prepayment, if the payment value date is less than or equal to an existing IRR effective date, then IRR will be recalculated as of the earliest IRR effective date and all future dated IRR will be deleted.

IRR re-calculation does not happen in following cases:

- Regular Payment
- Overdue Payment
- Reversal of Regular Payment
- Reversal of Overdue Payment



Note the following:

- Catch-up of discount accrual during various events like amendment leads to recalculation (i.e. principal change/maturity date change/rate change/schedule redefinition), rate revision, liquidation, rollover, reversal of prepayment, etc. This is similar to the catch-up of interest liquidation in this module.
- During full repayment, outstanding accruals are passed unconditionally with the YACR event.
- During full prepayment, if there is a charge associated for the LIQD liquidation event, the charge amount will be populated with %LIQD amount tags.
- During foreclosure of the account the same processing as that of discount is followed for premium. This means that either complete pending accrual or refund happens based on the preference specified at the product level in the 'IRR Accrual Preference' screen. This implies that either the unaccrued discount for the entire tenor of the account will get accrued (in case of 'Complete Accrual' preference) or the refund happens to the customer for the unaccrued amount (in case of 'Refund' preference).
- In case of 'Par' acquisition type, there is no refund. Only the pending accruals are completed.

4.7.1.1 Processing during Account Status Change

During status change the system:

- Makes all discount accrual accounting roles available for transfer
- Identifies the balances to be transferred as 'Premium TBA – Premium Accrued' and 'Discount TBA – Discount Accrued'
- Stops the discount accrual and ensures that the YACR event doesn't pass any entries when the option 'Stop Accrual' is checked for a contract
- Reverses the balances for 'Premium Accrued' and 'Discount Accrued' when the 'Reverse Accruals' option is checked for a contract
- Cash flow for charge components being liquidated while booking of the loan (BOOK) or initiation of the loan (INIT) are populated with due date equal to first disbursement date
- For charge components wherein the charge currency is different from the contract currency, the charges are calculated in the specified charge currency at the product component level. These charges are liquidated during the BOOK or INIT events. The charge amount in the account currency is then arrived at based on the exchange rate as of account booking date.
- In case the charge currency not the same as the account currency, but the account currency is the same as the settlement account currency, the exchange rate input in the 'Settlements' screen will be used to convert the amount to account currency.
- IRR calculation is done during booking of the account (the BOOK event) instead of value date of the account (the INIT event) for future dated accounts.

4.8 Processing Residual Installment for the Loan Product

You need to define the charge component with 'RESD_INSTALLMENT' SDE to recover the residual installment amount generated from the intermediate installment. For this component, the Calculation Type will be 'Formula with Schedule' and Formula Type will be 'User Defined'

The formula to recover the residual amount is as follows:

Line	Condition	Result
1	AMOUNT_FINANCED > 0	RESD_INSTALLMENT

During settlement of residual amount, the accounting role DR_SETTLE_BRIDGE is mapped to the receivable GL that is used in the residual charge component. In all other cases, this will be mapped to a bridge GL. This rule is defined with the SDE 'RESD_INSTALLMENT_PMT' as follows:

Line	Condition	Account Head
1	RESD_INSTALLMENT_PMT = 'N'	19xxxxxx
2	RESD_INSTALLMENT_PMT = 'I'	16xxxxxx
3	RESD_INSTALLMENT_PMT = 'B'	41xxxxxx

RESD_INSTALLMENT_PMT: This SDE is used to identify residual installment payment. The value of this SDE will be 'I' for intermediate installments and 'B' for final installment, when MLIQ event is processed for an auto or manual liquidation loan. In all other cases, value of this SDE will be 'N'.

RESD_INSTALLMENT: This SDE is used to get the details of residual amount paid. This information will be populated for an installment.

The role to head mapping of receivable head for the residual charge component is as follows:

Accounting Role	Account Head
<COMPONENT>REC	16xxxxxx

Refer the chapter titled 'Annexure A: Accounting Entries and Advices' in this User Manual for the details of the accounting entries.

4.9 Defining Customized Products

The CL module gives you the flexibility to create customized products for promotional and special offers whereby you can offer special incentives/ concessions to certain or all categories of customers. Such products are referred to as 'Promotions'. A promotion can have a different set of preferences, schedules etc. You can associate a loan with one or more promotions.

You can create customized promotion products in the 'Promotions' screen available in the Application Browser. You can invoke this screen by typing 'CLDPROMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot displays the 'Promotions Details' window with the following sections:

- Header Fields:** Promotion Code * (text), Promotion Start Date (calendar), Promotion Description (text), Promotion End Date (calendar), Module Code (text), Product Code * (text).
- Navigation:** Preferences (selected) and Components tabs.
- Tenor Section:** Minimum * (text), Maximum * (text), Default * (text), Unit * (dropdown).
- Loan Amount Section:** Minimum Loan Amount (text), Maximum Loan Amount (text).
- Holiday Periods Section:** Includes a table with columns for User Defined Element Id, UDE Value, Minimum Value, and Maximum Value. A 'Holiday Period' checkbox is visible.
- Payment Details Section:** Maker, Checker, Date Time, Mod No, Record Status, Authorization Status, and OK/Cancel buttons.

The screen has two tabs: Preferences and Components. By default, the 'Preferences' tab is displayed when you invoke the screen.

Basic Details

First, capture the following basic information about the promotion:

Promotion Code and Description

You have to specify a unique 4-character alphanumeric code to identify the promotion in the system.

Provide a brief description of the promotion. This description will be associated with the promotion product for information retrieval purposes.

Module Code

Specify the module code from the adjoining option list.

Promotion Start Date and End Date

Specify the life span of the promotion. The promotion is valid for the period maintained here. By default, the current date is the 'Start Date' of the promotion. You can change it to a date in the past or future.

If you do not specify an end date for the promotion, it can be used for an indefinite period and the product becomes open-ended in nature.

4.9.1 Preferences Tab

As part of promotion preferences, you have to:

- Specify tenor details
- Associate holiday periods
- Select the relevant UDEs and specify their values

Tenor Preferences

You can set the minimum and maximum tenor limits for the promotion. You can also specify a standard or a default tenor.

Minimum Tenor

Specify the minimum tenor applicable for the promotion. If you associate the loan to the promotion being maintained, the tenor of the loan account should be greater than or equal to the minimum tenor specified here.

Maximum Tenor

Likewise, you can also specify the maximum tenor for the promotion. The tenor of the loan accounts associated with the promotion should be less than or equal to the Maximum tenor that you specify here.

Default Tenor

The 'default tenor' is the tenor that is applied to the loan account upon association with the promotion. The value captured here should be greater than the minimum tenor and less than the maximum tenor. You can change the default tenor applied on a loan account during loan processing. However, the new tenor should be within the minimum and maximum tenors maintained for the promotion.

Units

The tenor details that you specify for a promotion can be expressed in one of the following units:

- Days
- Months
- Years

It is mandatory to define the tenor details before specifying the holiday periods for the promotion.

Loan Amount

You can set the minimum and maximum loan amount limits for a promotion. The system processes the promotion only if the loan amount falls between the minimum and maximum loan amounts. During processing, the system would consider the minimum and maximum loan amounts in local branch currency.

Minimum Loan Amount

Specify the minimum loan amount applicable for the promotion.

Maximum Loan Amount

Specify the maximum loan amount applicable for the promotion.

Holiday Periods

You can maintain holiday periods for the promotion. Holiday periods or repayment holidays refer to the time when customers can avail repayment holidays owing to other expenses during the period. Holiday periods are defined in the 'Holiday Period' screen and the same are available for association with the promotion being maintained.

For more details, refer the section titled 'Maintaining Holiday Periods' in the 'Maintenance and Operations' chapter of this User Manual.

Select the appropriate holiday periods from the option list provided.

Promotion Rate Factor

You have to specify the special interest rates that are applicable for the promotion:

UDE Id

Select the UDEs (User Data Elements) for the promotion being maintained.

UDE Value


Specify the value of the UDEs selected. The value specified here is used in the formula defined for interest calculation. The UDEs maintained for the Promotion takes precedence over the product level UDEs. At the account level, the UDEs get defaulted from the promotion in the order of priority, the highest priority promotion being applied last.

Maximum Value

Specify the maximum value for interest rate component type.

Minimum Value

Specify the minimum value for interest rate component type.

 The system will validate the final interest rate (after application of RP) against the minimum and maximum interest rate maintained at the promotions level. If the value of the interest rate is greater than the maximum value, then the system will compute the maximum value. If the value of the interest rate is lesser than the minimum value, then the system will compute the minimum value.

For more details on loan accounts, refer the 'Account Creation' chapter of this User Manual.

4.9.2 Components Tab

To specify the component details, go to the 'Component' tab of the screen.

The screenshot shows the Oracle 'Main' window with the 'Components' tab selected. The 'Component Definition' section shows 'Main Component' as a checkbox and 'Component Type' as a dropdown menu set to 'Principal'. A text box displays 'Main Interest PRINCIPAL'. The 'Schedules' section contains a table with the following columns: Sequence Number, Schedule Type, Start Reference, Frequency Unit, Frequency, Start Day, Start Month, Start Date, Schedule Flag, and No of Schedules. The table is currently empty. The 'Fields' section at the bottom includes labels for 'Input By', 'Authorized By', and 'Modification Number', each with a 'Date Time' field. There are also checkboxes for 'Authorized' and 'Open', and an 'Exit' button.

The following components are automatically defined for the promotion:

- MAIN_INT: This component is designated as the 'Main Component' and the 'Component Type' is 'Interest'.
- PRINCIPAL

You cannot modify the components or define additional components for a promotion.

Schedules

Maintain the schedule details for the two components in this section of the screen. These include the following:

- Sequence Number
- Schedule Type
- Start Reference
- Unit and Frequency
- Start Day
- Start Month
- Start Date

- Flag (Normal or Moratorium)
- Number of schedules
- Whether capitalization of the component is applicable or not

For more details on the schedule preferences, refer the section titled 'Specifying policy preferences' in this chapter.

After the promotion is saved and authorized, it becomes available for association with loan accounts.

You can associate one or more promotions to a loan account in the 'Account Details' screen. The tenor details, holiday periods, UDEs and component details maintained for the promotion get defaulted to the account in the order of the priority level specified for the promotions. The promotion that has the highest priority level will be applied last.

For more details on associating promotions to a loan account, refer the 'Account Creation' chapter of this User Manual.

4.9.3 Specifying Payment Details

You can capture convenio parameters for lending in the 'Payment Details' screen. Click 'Payment Details' button in the 'Promotions Details' to invoke this screen.

You can capture the following details here:

Promotion Code

Specify the promotion code. The adjoining list displays all the promotion codes maintained in the system. You can choose the appropriate one.

Blocking Days

Specify the number of non-payment days of installment. If an installment remains unpaid exceeding the number of days mentioned in this field then the schema is blocked with a reason for such block.

Salary Processing

Check this box to indicate that payroll discounting is allowed for the promotion. If this option is checked then while creating the contract based on the customer scheme linkage, the schedules, first payment date and other details are defaulted to the contract. If this box is not checked then the schedules information is not defaulted to the contract.

Contract Currency

Specify the currency of the contract. You can leave this field blank if validation is not required.

Overdue Contracts

Specify the overdue contracts. If this number of loan contracts are over due for blocking days then the customer schema linkage will be blocked.

5. Account Creation

5.1 Introduction

Loan Accounts in the Retail Lending module represent the receivable accounts that you create while disbursing a loan. These accounts derive their feature from the Loan Product. Loan Accounts are mapped to the Asset GL through the accounting Role LOAN_ACCOUNT. This role has to be mapped to the respective Asset GL of the Bank. You can override some product features at the account level.

The system allows you to do the following actions on the Loan accounts:

- Account Main Details Maintenance/Light Loans
- Liability details and UDE Values Maintenance
- Account Preferences/Defaults
- Account Component schedules
- Charges Maintenance and Settlement details
- Linkages Information
- Events, Events Due and Events Overdue

5.2 Creating a Loan Account

The account screen accepts the Customer, Currency and Amount Financed and creates a Light Loan. This is a default Loan that takes all other details from the defaults the product provides. For creating simple accounts in the CL module, you can follow this simple process. These Loans are called Light Loans in the CL module.

Oracle FLEXCUBE allows you to create loan account for project financing manually and link it to the project limit line. You can link the customer of the loan to the executor of the project. Joint venture limit tracking is based on the project loan and picking up the limit tracking using joint venture maintenance. The system will also store the project ID and PPC against which it is used. The ratio of joint venture at the time of loan creation is stored at loan level and in turn it is used for tracking till loan closure.

Once the loan is paid, i.e., the sponsor has made the money available to the executor and hence this transaction is to be marked against the PPC and reduce PPC limit to that extent.

You can create a loan account using the 'Account Details' screen. You can invoke this screen by typing 'CLDACCNT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Click new icon in the Application toolbar. The system will display 'Transaction Branch Code' screen. Here you can select the transaction branch.



The system defaults the logged-in branch by default as the transaction branch.

Transaction Branch

Select the appropriate branch from the list of branches available in the option list.

While clicking 'Ok' button, the system validates the access rights of the selected branch and function for the user. If you don't have appropriate rights on the selected branch and function, the system will display an error message. If you select a valid branch, the system updates the same as transaction branch and the transaction will be posted for this branch.

You can specify the following generic details in the Account Details screen:

Agreement ID

Specify the agreement ID. The adjoining option list displays all the valid agreement IDs maintained in the system. You can choose the appropriate one.

Based on the agreement ID selected, the following parameters are defaulted:

- **Product:** The system defaults the Product Code from the associated agreement. Additionally, the system validates that the specified product matches with the one maintained at the agreement level.
- **Disbursement:** Disbursement of loan is allowed only on the days identified in the 'Disbursement Calendar' of the agreement. If all the days are identified in the calendar, the loan can be disbursed on any date.
- **Due Date On:** For a loan account, attached with an agreement having 'Payment Date' as 'Fixed', the system will default the value of 'Due Date On' from the field 'Payment Day' in the 'Customer Agreements Maintenance' screen. This field is enabled for modification.
 - If 'Payment Day' is not a single day at agreement, the 'Payment Day' field will be null. 'Due Date On' specified at the time of account creation will be validated against the days maintained in the disbursement calendar.
 - When 'Payment Day' is not a single day, the disbursement date can be different from the payment date, and in this case the first schedule will have greater number of days. The system will calculate the excess days interest and based on the 'Capitalize' preference at the product level and the value of the EMI, this schedule will be capitalized or be a interest only schedule.
- **Minimum Days for First Installment:** If loan accounts are attached with the agreement having 'Minimum Days for First Installment' maintained, the schedule generation will be based on the parameter at the agreement level, instead of the loan product.
- **Interest Rates:** UDE details defaulted from product default will be overwritten by UDE details inherited from the associated agreement. UDE details that are not provided at Agreement Level and provided at Product Level, will be inherited to Loan account from the Product. Inheritance of UDE details from agreement will happen only if the same is not provided as part of loan creation request. If UDE details are specified during loan creation or during HOLD operation, the system will not inherit from agreement/product.
- **Limit Linkage:** The limit ID maintained in the agreement is automatically linked to the loan account during creation. Additionally, the system validates that the limit has sufficient balance available to cover the loan amount. In other words, the account creation will be rejected if the associated limit does not have sufficient balance to cover the loan amount.



Note the following:

- A loan can be linked to any valid agreement maintained in the system. Loan eligibility of an applicant under a given loan agreement will be decided by the Bank and therefore, the same will not be validated by the system.
- Parameters/preferences inherited from the agreement level can be overridden at the account level.

Product Code

Click the option list to select a Product Code from the list of values. Double click on a Product Code to select a particular code. The product codes are maintained in the Product Definition screen.

Customer ID

To select a customer ID, click the option list. A screen called 'Find Customer Details' is displayed. You can enter search criteria in this screen. For example, you can enter the customer name or number and click on the 'Search' button. The system then fetches you all the details corresponding to the Customer name or account. Once you find all the details, double-click on the record to return to the account details screen.

Amount Financed

Specify the total loan amount of the loan in this field.



If Calculate Gross Principal is checked, then the amount financed is the gross principal.

On saving the account, the system validates the value of the amount financed against the following:

- Product transaction limit
- User Input limit

If the transaction currency and the limit currency are different, then the system converts the amount financed to limit currency and checks if the same is in excess of the product transaction limit and user input limit. If this holds true, the system indicates the same with below override/error messages:

- Number of levels required for authorizing the transaction
- Transaction amount is in excess of the input limit of the user

Currency

To select a currency, click the adjoining option list. A list of currencies is displayed. Double click to select a currency.

Click 'Product Default' button after entering product code, customer ID, currency and amount financed. The system defaults other details maintained for the selected product. The system also defaults the schedule definitions from the product and computes the detailed schedules. After clicking the 'Product Default' button, you cannot change the product code. Also, the system prompts you to click the 'Product Default' button once again if you change 'Customer ID', 'Currency' or 'Amount Financed' fields.

Branch

The system displays the Branch Code of the branch into which the user has logged in, for which the UDE values are maintained.

Account Number

Based on the parameters that setup at the branch level, the account number would be either auto generated or would have to be captured in this field.

Product Category

The system displays the product category in this field

Application Number

The system displays the Application Number in this field



This is applicable only if the origination of the loan is in Oracle FLEXCUBE or is interfaced

Alternate Account Number

Specify the alternate account number in this field. It can be an account number in the existing system from which the account has migrated to Oracle FLEXCUBE.

Project Account

Check this box to track the working capital of the project.

User Defined Status

After you enter the account number, the system displays the status of the account in this field. This is based on the products status maintenance rules.

If you have opted for status processing at the 'Group/CIF' level as part of your branch preferences, the system defaults the value of CIF status as available in the 'Customer Maintenance' screen. This status is the worst status among all the loans, savings accounts and current accounts for the customer within the current branch.

Derived Status

The system defaults the status of the individual loan account here. This is derived from the status maintenance rules of the product, during end of day operations.

User Reference Number

A 16-digit User Reference Number is autogenerated and displayed here if the 'Auto Generate User Ref No' option is checked in the Branch Parameters. The format of the user reference number is BranchCode + ProductCode + Sequence number. You are allowed to modify the auto-generated User Ref No.

If the 'Auto Generate User Ref No' in Branch Parameters is not checked then the User Ref No will be blank by default and you have to specify it manually. Validations are done by the system not to save the account if an unsuppressed payment message is present which has the User Ref No as blank.

Mandatory Collateral Coverage (%)

Mandatory collateral coverage is validated during account activation and amendment. This is not validated when an account is created with Hold options. System does not validate the collateral available balance while associating collateral during loan creation in Hold status. Default value is Zero and system should allow modifying post activation of loan account.

HOLD button is enabled to create a loan in Hold Status.

When "Mandatory Collateral Coverage (%)" is zero, then system does not validate the collateral linkage details.

Linking and Delinking of Collateral:

- Collaterals details are captured in Linkage Details section of account maintenance. Multiple collaterals can be linked to an account.
- For accounts in Hold Status, linking and delinking of collaterals are permitted. However, post activation of an account, value dated amendment operation are used to amend collateral details associated with the loan. Linkage details section at loan level is modified to capture collaterals using UID type and UID value.
- Collateral details are validated whenever an account is Created /amended/loan amount is disbursed.
 - Collateral associated to the loan account should be in "Available" status.
 - Collateral Start Date should be less than or equal to application date and End Date should be greater than application date and if end date is less than maturity date of the loan system will give an override message. For Unidirecto Loans system compares the final maturity date of the loan with end date and end date is less than final maturity date of the loan system gives an override message.
 - Next Reval Date or Insurance End Date or Document Revision Date, whichever is greatest, should be greater than application date.
 - Collateral available amount should be sufficient to meet the Coverage Percentage maintained for the collateral. E.g. If the amount of loan principal outstanding balance is 1000,000 COP and coverage percentage maintained for the collateral is 70%, then collateral available amount should be greater than or equal to 700,000 COP.
 - Collateral linkage amount will be derived automatically based on collateral coverage percentage maintained at collateral and loan principle balance. .
 - Collateral linkage amount should satisfy Mandatory Collateral Coverage of a loan i.e. sum of collateral linkage amount should be greater than or equal to Loan Principal multiplied by Mandatory Collateral Coverage (%) of a loan.
 - For collateral class Guarantee, limit reservation date should be greater than value date of the loan.
 - System should not allow associating FNG Collateral to loan account when Loan class of Loan account is "Retail". This will be validated using the 'Allowed Loan Class' field maintained at collateral category level.

Collateral Utilization/De-utilization

You need to change collateral utilization/ De-utilization process to arrive at utilization amount based on the Coverage Percentage maintained for the collateral i.e.

Utilization = \sum Outstanding Principal of the Loan Account * Coverage Percentage of the Collateral, (for loan creation operation)

De-Utilization = \sum Principal Settlement Amount * Coverage Percentage of the Collateral, (for loan payment)

Utilization = \sum Principal Settlement Amount * Coverage Percentage of the Collateral, (for loan payment reversal)

Loan Creation/Payment Reversal.

Collateral utilization balance will increase and available balance will decrease on loan creation/payment reversal. Amount will be calculated using above mention formula.

Loan Payment

Collateral utilization balance will decrease and available balance will increase on loan payment. Amount will be calculated using above mention formula.

Customer Loan Re-Classification based on Associated Collaterals.

Batch process UDBATEVT will be introduced; this base process will calculate the 'Collateral Classifier' for a customer and based on the Collateral Classifier system will mark customer loans as "Real" or Non Real and vice Versa.

'Loan Type' is introduced at account level to store Loan as "Real" or "Non Real"

- If a loan is backed up only by Non Real type of collaterals then system will reclassify the loan as Non Real.
- If a loan is backed up by FNG/FAG type of collateral and does not associated with any other real collaterals then loan will be classified as Real.
- If a loan is backed up at least by single real collateral then all such customer loans will be reclassified together based on below logic.

Collateral Classifier= $\frac{\text{Sum of Real Distinct Collateral value(Including FNG/FAG) in Local}}{\text{Sum of Principal Outstanding balance in local currecny for all Loans Flexcube and External of a which are linked to Atleast a Single Real Collateral}}$

- If the above calculated "Collateral Classifier" is greater than the "Real Collateral Coverage". System will mark all the loans referred for reclassification process as Real.
- If the above calculated "Collateral Classifier" is less than the "Real Collateral Coverage" and loan is associated to Guarantee type of collateral (FNG/FAG) then system will mark the loan as Real else loan will be marked as Non Real.

Loan Principal accounting reclassification will be handled with below product Configuration:

- SDE LOAN_COLLATERAL_TYPE is used to define different GL for Loan account Accounting Role. This SDE will return value as 1 if loan type is Real else this will return 2.

User defined Event namely “LRCL” has to configure on all the products with following setup

Account Role	Amount Tag	Debit Credit indicator	Split Balance
Loan Account	UAMT_LOAN_RCLS	C	Yes
Loan Account	UAMT_LOAN_RCLS	D	NO

In Batch process system will trigger the “LRCL” event and re-classify the Principal balance in as “Real” or “Non real” GLs.

5.2.1 Main Tab

You can capture the main details of the loan account in this tab.

The screenshot displays the 'Account Details' window with the following sections:

- Header Fields:** Agreement Id, Branch Code, Version No, Product, Account, User Reference, Product Category, Alternate Account Number, User Defined Status, Application Number, Mandatory Collateral Coverage(%), Derived Status.
- Main Tab:** Customer Id, Customer Name, Economic Destination, Currency, Amount Financed, Book Date, Value Date, First Pay By Date, Total Principal Outstanding, No of Installments, Unit (Bullet), Frequency, Installment Start Date, EMI Amount, Due Date On, Maturity Type (Fixed), Maturity Date, Tenor, Refinance/Renegotiation, Net Principal, Loan To Value, Index Exchange Rate, Subsidy Customer Id, Calculate Gross Principal, Linked Loan Account, FNG Coverage %, Liability GL Balance, Enrich, Edit UDE Details, Loan Type.
- EMI Details:** EMI Frequency Unit, EMI Frequency, Minimum EMI, Maximum EMI, Base End Date.
- Effective Date:** Navigation controls and a table for User Defined Element Values.
- User Defined Element Values Table:**

User Defined Element Id	User Defined Element Value	Rate Code	Code usage
- Bottom Navigation Bar:** Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, Installment Query, SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, Disbursement Modes Details.
- Footer:** Input By (Date Time), Authorized By (Date Time), Status (Authorization Status), Cancel button.

The following details regarding the loan account are captured here:

Book Date

In this field, the current date when the loan details were entered is defaulted and cannot be modified

Net Principal

The Net Principal is the actual principal amount financed. It is system calculated and excludes any other funded components.

Customer Name

On selecting the customer ID, the system displays the customer name.

Economic Destination

Specify the economic destination code. The adjoining option list displays all the economic destination codes maintained in the system. You can choose the appropriate one.

The system checks if the intended economic destination is allowed for the loan customer i.e. customer type of the loan applicant is matched with the allowed customer type defined in the 'Product Class Maintenance' screen. Additionally, if a product is associated with a product class, the system will check if that product class matches with the product class associated with the economic destination.



Product class of a loan will be obtained on the basis of economic destination. Maximum Remuneratory rate and Usura rate will be obtained from product class maintenance.

Value Date

Select the Value date of the loan in this field using the date button.

Subsidy Customer ID

Specify the unique identifier of the agency or the third party included in the subsidy loan contract.

Maturity Date

Select the maturity date in this field using the date button.

If you are not sure of the maturity date, enter the tenor of the loan in either days or months or years as say 3M for 3 Months etc. The system automatically calculates the date on tabbing-out of the tenor.

First Pay By Date

Specify the customer's preferred first pay by date. The system will calculate the schedule due date as follows:

Schedule Due Date = (First Pay by Date) - (The credit days maintained at product level)

In case the calculated first schedule due date is less than or equal to the value date of the contract, then the user has to modify the first pay by date. For instance, if you prefer to have your payment date on 14th of every month, then the first pay by date should be 14th day of the month. Presuming credit days is maintained as '10' at the product level, the first schedule due date will be 4th of that month, i.e., 14th Apr 09 – 10 (first pay by date - credit days)

First Pay By Date	Credit days	Schedule due date
14 Apr 09	10	4 Apr 09

Refinance

Check this box to indicate that the loan being created will liquidate the existing loan.



Note the following:

- During “Hold” operation of a loan account, if “Refinance” is checked then along with existing loan account number, system will also store the outstanding loan balance.
- You cannot create a loan account with closed agreements. Agreements with ‘End Date’ past the application date cannot be attached to loan account.

Maturity Type

Select the Fixed or Call option to specify the type of loan maturity.



The system by default selects the option Fixed. For the Call option, the maturity date will not be computed upfront.

If you choose the ‘Call’ option, IRR processing will not be applicable to the account.

Due Date On

Specify the due date for creating schedules for the loan account. The due date can be any given day of the month.

Additionally, if a loan is sanctioned under a customer agreement (Convenio) and “Fixed Due Date” is checked at product level, then value of “Due Date On” is inherited from customer agreement and same cannot be modified at account level. If ‘Fixed Due Date’ is checked (“Y”) and “Due Date On” is NULL, then system will default day of disbursement as “Due Date On”. The system will allow you to specify the due date only when the ‘Fixed Due Date’ checkbox is checked in the Account Preferences screen. However, this validation is not applicable during VAMI/Rollover process.

Index Exchange Rate

Specify the exchange rate for index currency here

Calculate Gross Principal

Check this box if you want the system to calculate the gross principal for the loan. If you have checked this box and have entered the amount financed then system takes the amount financed as the gross principal. Any of the charges is having Funded during INIT event then this means Bank is funding for the Charges also. Hence the Charges amount is also added on to the Amount Financed.

If this Check Box is Checked:

Example

Loan amount: 100000

Charges: 1000

Funded during INIT is checked and Gross Principal is Checked and then Enrich button is Clicked the Amount Financed is Changed to 101000

If this Check Box is Not Checked:

Example

Loan amount : 100000

Charges :1000

Funded during INIT is checked and Gross Principal is not Checked and then Enrich button is Clicked the Amount Financed is Changed to 100000

To add the Amount to the Amount Financed 'Calculate Gross Principal' check box has to be checked.

FNG Coverage %

The system automatically displays the FNG coverage percentage when the FNG collateral is attached to the loan. This field will retain its value even after detaching the collateral from the loan.

The system validates that only one FNG collateral can be associated to an account.

Liability GL Balance

The system displays the total balance in liability GL pending to be applied on a loan.

Total Principal Outstanding


Total Principal Outstanding inclusive of the compounded interest or penalty is defaulted here.

Tenor

Specify the tenor of the loan.

Tax On Refinance

Check this box to indicate that the tax needs to be calculated for Refinanced/Renegotiated loan.

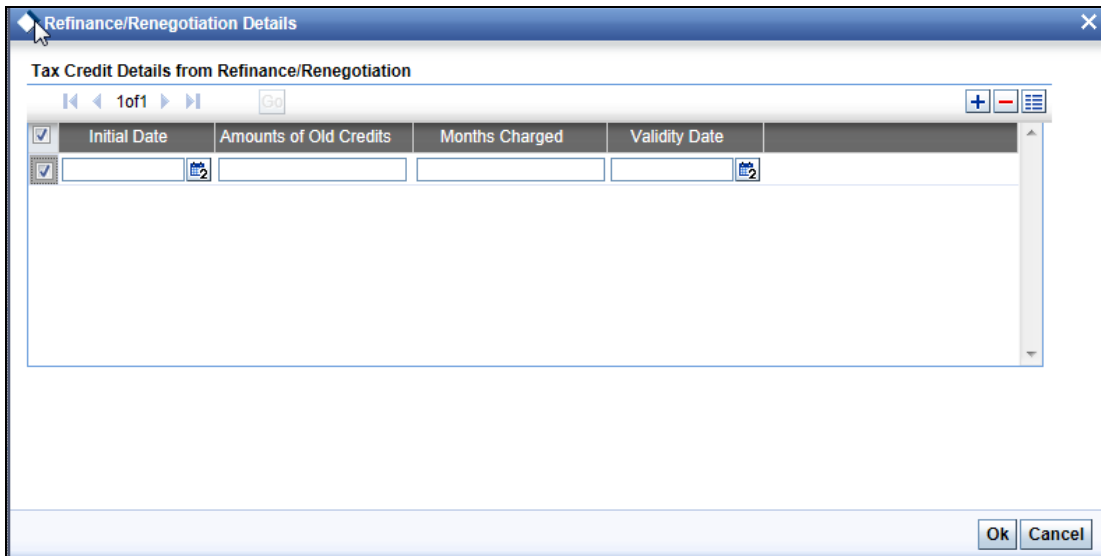
 If you check this box, it's a Re-Financing Loan (covering loan accounts which are maintained with other banks and being refinanced by a bank) and Amount Financed field will be disabled and 'Refinance/Renegotiation' Button will get enabled, The Amount Financed will be derived from the Amount of Old Credits in the 'Refinance/Renegotiation' Button.

Linked Loan Account

. In asset loan, Linked Loan Account field has liability loan account number, In liability loan, Linked Loan Account field has asset loan account number.

5.2.1.1 Specifying Refinance/Renegotiation Details

Click 'Refinance/Renegotiation' button on 'Account Details' screen to invoke 'Refinance/Renegotiation' screen capture refinance related tax details provided the check box 'Tax On Refinance' should be checked.



The screenshot shows a window titled "Refinance/Renegotiation Details" with a sub-header "Tax Credit Details from Refinance/Renegotiation". The window contains a table with the following columns: "Initial Date", "Amounts of Old Credits", "Months Charged", and "Validity Date". There is a "Go" button and a "1 of 1" indicator above the table. The table has one row with empty input fields. At the bottom right, there are "Ok" and "Cancel" buttons.

<input checked="" type="checkbox"/>	Initial Date	Amounts of Old Credits	Months Charged	Validity Date
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

You can enter the following details:

Initial Date

Specify the initial date of the previous loan. However if anything other than Date data is entered in 'Initial Date', the system displays the following error message:

'Initial Date should be in MM/DD/YYYY format'

Amount of Old Credits

Specify the amount of credit for the previous loan. However if anything other than Numeric data is entered in 'Amount of Old Credits', the system displays the following error message:

'Amount of Old Credits should be numeric'



The amount entered here will be considered for the Tax calculations based on the Months charged field value entered.

Months Charged

Specify the months for which tax has already been applied. However if anything other than Numeric data is entered in 'Months Charged', the system displays the following error message:

'Months Charged should be numeric'

Validity Date

Specify the validity date of the tax period of previous loan. However if anything other than Date data is entered in 'Validity Date', the system displays the following error message:

'Validity Date should be in MM/DD/YYYY format'



Specify the Date Till when the tax was charged for the Loan being mentioned, taxing period for the Refinance Loan will be considered. (Minimum of minimum tax months maintained at the Bank parameter level) and (difference of validity date mentioned to the Maturity Date of Refinance Loan).

EMI Details

Frequency Unit

Select the unit of frequency at which the EMI of the customer will change, from the adjoining drop-down list. This list displays the following values:

- Monthly
- Quarterly
- Half-yearly
- Annually

The system derives the first change date by adding the Frequency unit to the value date.

EMI Frequency

Specify the frequency in which the EMI of the customer will change.

Minimum EMI

Specify the minimum EMI amount for the customer. If the result of the derived EMI is below the 'Minimum EMI' specified here, the system sets the EMI for the customer to the Minimum EMI amount.

Maximum EMI

Specify the maximum EMI amount for the customer. If the result of the derived EMI is above the 'Maximum EMI' specified here, the system sets the EMI for the customer to the Maximum EMI amount.



The Minimum EMI and Maximum EMI are optional inputs.

Base End Date

Specify the date beyond which the EMI Change (EMIC) will not be processed. Alternatively, you can also select the date from the calendar button.

Effective Date

You can specify the following detail here:

Effective Date

The effective date is used to pick the UDE value. The system displays this date from the General UDE maintenance screen.

For a product + currency combination, if the UDE values are not maintained for the effective date, then the system defaults "0" which the user can then edit.

User Defined Element Values

The UDE values for each Account are maintained here. After clicking the 'Product Default' button, the UDE values default from the UDE values maintenance for the Product, Currency, effective dates combination. The system disables this section. These can be overridden by providing account level UDE values. For this, you need to click the 'Edit UDE Details' button. After changing the details, the system re-computes the schedules. On saving the contract, the system prompts the changed details.

However the UDE are only those defined at the product level. No New UDEs can be introduced at the account level.

The system checks whether the UDE values fall within the minimum and maximum limits specified for the UDEs linked to the product. If a UDE value falls outside the permissible limits, the system will throw an error message,

If there are no product level UDE values maintained, the system will default the UDE value to Zero. However, at the time of saving, if UDE values are zero or any invalid value, then an override will be raised with an appropriate error message. If required this can be configured as an error message. In case of an ERROR, you will have to give a valid value. While if it is an OVERRIDE, you can overlook the message and continue and if it is for an ONLINE AUTHORIZATION the parameter should be authorized appropriately.

You can specify the following details for the UDE values:

User Defined Element ID

To select a UDE Id, click the option list. A list of UDE Ids is displayed. Double click to select a UDE Id.

User Defined Element Values

Specify the Actual Value for the UDE based on the effective Date in this field. The value specified here should fall within the minimum and maximum limits maintained for the UDE linked to the underlying product.



Mandatory if a UDE is maintained.

Rate Code

Select the code for the Floating Rates if any and the spread on it applicable in this field by clicking the option list. A list of values is displayed. Double click on a value to select it.

Code Usage

Select the Code usage which can be periodic or automatic in this field

When loan is created with rate codes DTF, IPC, IBR and LIBOR; Code usage is selected as Periodic for UDE. Additionally, rate revision is maintained to trigger rate revision on desired dates.

Resolved Value

This denotes the final value of a UDE. Resolved value = Rate code value taken from Floating Rate Maintenance + the spread [UDE Value]



Whenever there is a change in interest rate during events like VAMI, ROLL, REVN and ARVN, the system validates the new rate against the booking interest rate and applies the rate whichever is lower. The system displays an override message for you to confirm this. This can be achieved by attaching the policy 'INT_RATE_VAL' to the required events at product level.

Resolved value will have rate in effective annual form after the rate control process which is rounded off based on the parameter capture at UDE maintenance level whenever it is associated with a rate template. User input value is available in UDE value Column.

Rounding Rule

Select the rounding rule from the adjoining drop down list.

- Round Up
- Round Down
- Round Near – This is the default value.

Based on the rounding preference maintained for the UDE, the system will display the corresponding rounded resolved value.

Rounding Unit

Specify the decimal rounding unit.

Rate Template

Specify the rate template to facilitate rate conversion. The adjoining option list displays all the rate templates maintained in the system. You can choose the appropriate one.

Account EMI Change

In addition to specifying the change in EMI in terms of frequency, you can also input the change in terms of amount and percentage. Specify the following details related to the change in EMI amount of the customer:

Amount Change in EMI

Specify the fixed amount by which the current EMI amount of the customer is either increased or decreased. This can either be a positive or negative value.

Percentage Change in EMI

Specify the EMI percentage by which the current EMI amount of the customer is either increased or decreased. This can either be a positive or negative value.

Effective Date

Specify the date from which the new EMI amount is effective for the customer. Alternatively, you can also select the date from the calendar button. The Effective Date for Account EMI Change should always be greater than the value date of the contract.

During value dated amendments, it is possible to change the EMI amount of the customer from the new 'Effective Date'. However, the 'Effective Date' should be greater than the VAMI effective date.



It is mandatory to specify either 'Change EMI Percent' or 'Change EMI Amount' along with the 'Effective Date'.

Enrich

After product defaulting, you can change the contract details which impact the schedule computation. You should enrich these changed details. Click the 'Enrich' button. The system displays appropriate overrides and re-computes schedules and other details depending on the changed values.

5.2.2 Preferences Tab

The defaults are maintained by the bank. Depending upon the combination of various preferences, the bank can have various account preferences. The defaults primarily are based on product definition and can be overridden.

The screenshot displays the 'Account Details' window with the 'Preferences' tab selected. The window is divided into several sections:

- Account Information:** Fields for Agreement Id, Product, Branch Code, Account, Version No, User Reference, Alternate Account Number, User Defined Status, Application Number, Mandatory Collateral Coverage(%), and Derived Status.
- Facilities:** A list of checkboxes including Cheque Book Facility, Passbook Facility, ATM / Debit Card, Liquidate Back Valued Schedules, Allow Bulk Payment, Amend Past Paid Schedules, and Project Account.
- Commission & IVA Mode:** A dropdown menu and fields for Commission % IVA Branch, Commission & IVA Account, and Minimum Amount Due Calculation Method.
- Bill Details:** Fields for Trade Reference, Bill Due Amount, and Amount Available.
- Liquidation:** Includes Liquidation Mode (Auto), Retries Auto Liquidation Days, and checkboxes for Auto Liquidation, Manual Liquidation, and Partial Liquidation.
- Track Receivable:** A checkbox for Intermediary Initiated.
- Intermediary:** A table with columns for Intermediary Code, Intermediary Name, and Intermediary.
- Holiday Periods:** A table with a 'Period' column.
- UDE Rate Plan:** A table with 'Start Date' and 'End Date' columns.
- Loan Statements:** A field for Start Date.

At the bottom, there is a navigation bar with tabs for Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, and Installment Query. Below this is another row of tabs for SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, and Disbursement Modes Details. The footer contains fields for Input By, Authorized By, and Status, along with a 'Cancel' button.

You can specify the following details here:

Allow Bulk Payment

Check this box to indicate whether the accounts under a commitment should be considered for bulk processing. Various disbursements are allowed for a corporate customer and these are treated as loans with separate products and EMI schedules. Assigning individual payments as Bulk payments provides the facility of viewing multiple loans under a single commitment.

Amend Past Paid Schedule Allowed

This preference determines if you can modify any feature such as interest rate, installment amount which affects already paid schedules. If you select this option then the paid schedules are recalculated and liquidations on them are recognized as pending as appropriate. Note that this option is applicable only to term loans.

Liquidate Back Valued Schedules

If this flag is turned on, during initiation, when a loan is input back dated and if there are any installment dues, then all those schedules with a due date less than the system date will be liquidated on initiation

Commission & IVA Mode

Select the settlement mode for commission and IVA from the adjoining drop-down list. The list displays the following values:

- CASA
- Loan Account
- Installment

You need to select 'CASA' to indicate the commission and IVA are to be collected from an internal current or saving account.

You need to select 'Loan Account' to indicate the commission and IVA are to be deducted from disbursement amount. In this case, the settlement account will be same as credit settlement bridge that is configured at product level.

You need to select 'Installment' to indicate if the commission and IVA are to be calculated and collected later as part of first payment.

Commission & IVA Branch

Specify the commission and IVA settlement account branch when commission and IVA settlement mode is 'CASA'.

Commission & IVA Account

Specify the commission and IVA settlement account when commission and IVA settlement mode is 'CASA'.

Use Guarantor for Repayment

Check this box if you need to consider guarantor account for repayment of loans.

Notary Pre Confirmed

Check this box to indicate that you have already got confirmation from the notary, before creation of the loan.

If the value date of the account is on or before the application date, then 'NCON' will trigger INIT and DSBR event for auto disbursement product, else user will need to trigger manual disbursement post the notary confirmation. .

If the value date of the loan is beyond the application date, the system will trigger the NCON event online, once the value date is reached the INIT and DSBR events gets fired, if the loan is under an auto disbursement product.

You can also save a loan account with this option unchecked. Once you receive the confirmation, you can trigger the 'NCON' event manually using the 'Manual Notary Confirmation' screen.

Refer the section 'Manual Confirmation by Notary' in this chapter to see the steps required for getting confirmation from Notary.

Loan Statement Required

The system defaults this value based on the product preferences. However, you can modify the default value. Check this box to indicate that the loan statement should be generated.

If this field is checked and the loan statement maintenance is not done at product level, the system will display an error at the time of saving the contract.

You need to have linked the 'CLST_DETAILED' message to the 'DSBR' event (for the product) in order to generate loan advice on each disbursal in the loan account.

For Loan Against Salary

The system defaults this value here based on the preferences maintained in the CL product. However, you can modify it at the account level.

Min Amount Due Calc Method

Specify the minimum amount due calculation formula name maintained at the product level.

On clicking the 'Default Method' button in the 'Product Definition' screen, the system will display the Min Amount Due Calc Method with the formula name.

For open line loans:

- The schedule due dates of MAIN_INT component will be the billing dates, the date on which the account will be picked for calculating minimum amount due.

- The service branch and service account are mandatory for PRINCIPAL Component to handle the excess payment.
- The Pay By Date is schedule due date plus the credit days maintained at product level.
- On click of the default button, the MAIN_INT schedules will be exploded and the pay by dates will be shown based on the First Pay By Date input by the user. If First Pay By Date is not input, then the first Schedule Due Date of MAIN_INT component plus the credit days (product parameter for OLL) will be defaulted as the First Pay By Date.
- Pay by date for bullet schedule (PRINCIPAL and MAIN_INT) will be the maturity date of the open line loan account.
- Holiday treatment will calculate the due date and pay by date respectively
 - System will be changed to always ignore holidays while computing the billing dates.
 - System will consider the holiday parameter setup in product while computing the pay by date.

PPPO Tenor

The system displays the calculated PPPO Tenor of the account.

The PPPO is computed and stored at the time of first disbursement of the loan. It is not recomputed after authorization. Once a schedule is defined for an account, the PPPO is computed as below.

- For bullet payments, the tenor is used directly to compute the PPPO, i.e., PPPO = tenor in days
- For loans with installment repayments, the PPPO is computed as:

PPPO Tenor = $\text{Sum (PRINCIPAL_EXPECTED * (SCHEDULE DATE - LOAN VALUE DATE) / TOTAL PRINCIPAL}$

Compare PPPO Tenor

The system displays the Branch Level Compare PPPO Tenor.

Liquidation

You can maintain the following liquidation preferences:

Liquidation Mode

The system defaults the mode of liquidation from the product level. However you can modify the same to indicate the mode of liquidation that you are maintaining. You can select one of the following options:

- Manual
- Auto
- Component

When a loan is securitized, the system performs following actions during Payments and Charges liquidation:

- The system transfers all future payments (including Principal Payments, Charges, Interest, Prepayment of Loan and Pre-payment Charges) to SPV account (since the ownership of the loan Asset is changed to SPV). The system posts the consolidated payments to SPV account during the EOD cycle.
- If the sale/buyback happened in the middle of logical accrual period, system performs force accrual on sale/buyback date and passes the accounting entries accordingly. During EOD cycle, the system generates consolidated credit advice message at securitization contract level.

Reset Retry Count For Reversed Auto Liquidation

If auto liquidation has been reversed in an account, it will be retried depending upon the status of this field. If this option is selected, then the auto liquidation is retried.

Partial Liquidation

If you select this option, system will perform partial auto liquidation

Retries Auto Liquidation Days

When auto liquidation option is chosen and funds are not available, the number of times the system can retry auto liquidation is determined by this field

If blank, the number of retries is infinite

Track Receivable

If Track receivable option is checked for an account, it tracks the amount to be liquidated as a receivable if funds are not available. So upon any subsequent credit, the receivables are blocked and allocated to the pending liquidation.

Auto Liquidation

Select this option to indicate that the Track receivable option is for Auto Liquidations. You can modify this during VAMI/rollover/renewal.



This is defaulted from the product level

On schedule liquidation if there are insufficient funds in the settlement account to satisfy the liquidation and if both the product and the account are marked for receivable tracking then system initiates tracking of receivable.

If the account is marked for Partial liquidation, then liquidation happens to the extent of available funds, and the remaining amount is tracked.

If the account is not marked for partial liquidation, and the amount available in the settlement account is less than the due amount, then system won't do any liquidation and starts tracking the full due amount.

Oracle FLEXCUBE facilitates considering and generating guarantor account details maintained under 'Component' tab of 'Account Details' screen, if the main borrower defaults the payment of the due amount. Based on the value defined for missed installments, system considers guarantor account for repayment. If fund verification and track receivable are enabled, then the system facilitates track receivable facility for both main borrower and guarantor accounts.



If a customer or a customer account is maintained as guarantor customer or guarantor account, then the system restricts closing them. However, details related to customer account being a guarantor account are not maintained at customer account level.

When due amount is not recovered from a primary settlement account and 'Use Guarantor for Repayment' box is checked, then the system processes ALIQ for the guarantor accounts with a status sequence number greater than the number maintained at the product level.



ALIQ for the guarantor accounts is an independent subprocess of ALIQ for the primary settlement account.

System performs following activities under different conditions:

- If guarantor account number is not specified for a selected customer, then the system considers all the accounts belonging to that customer.
- If verify fund box is checked, then the system checks for availability of due amount in the guarantor account.
- If verify fund box is unchecked, then the due amount will be an overdue for the primary settlement account.
- If due amount is not recovered completely from the guarantor account and partial liquidation is checked for the primary settlement account, then the system tracks the balance amount as track receivable of primary settlement account.
- If the due amount for a primary settlement account is not recovered at the EOD batch process, then the system defaults the above activities for the next BOD batch.

When sufficient balance amount is available either in primary settlement account or in guarantor accounts, then the amount blocks imposed on all valid accounts will be processed.

Whenever there is a credit to an account, the tracking process checks if the account has any receivable against it and if it does then the relevant amount is blocked as a receivable and the corresponding amount is marked to be used for settlement during subsequent ALIQ for the account. This process happens till the amount needed for liquidation is fully available.

The decision of allocating this credit will be based on the preference order of products that has been specified at an account class level. On the following EOD/BOD, batch liquidation tries to liquidate the schedule. The amount receivable is made available for the liquidation, and liquidation happens to the extent of receivable amount.

When an amount is credit to any of the linked guarantor account, then the system verifies for any repayment due at the primary settlement account level. If an amount is due for repayment, then the system blocks the overdue amount in the guarantor account currency. If the component currency and the guarantor currency are different, then the amount block would be computed based on the exchange rate derived from 'Sell' indicator. These amount blocks would be removed only at CL batch stage and the data of the guarantor block details would be stored.



If an amount is credited to a guarantor account with higher liquidation order than the guarantor account blocked earlier, then the due amount would be blocked for the guarantor account with higher liquidation order.

Manual Liquidation

Select this option to indicate that the Track receivable option is for Manual Liquidations.

During manual liquidation, if a due amount is settled, then the system removes the settled amount block for the guarantor accounts followed by the primary settlement account. After manual liquidation, the system recalculates the eligible amount block which has to be processed.



Note the following:

- By default, the system selects this option.
- Repayment from guarantor account will be considered only for auto liquidation and not for manual liquidation.

When a loan is securitized, the system performs following actions during Payments and Charges liquidation:

- The system transfers all future payments (including Principal Payments, Charges, Interest, Prepayment of Loan and Pre-payment Charges) to SPV account (since the ownership of the loan Asset is changed to SPV). The system posts the consolidated payments to SPV account during the EOD cycle.
- If the sale/buyback happened in the middle of logical accrual period, system performs force accrual on sale/buyback date and passes the accounting entries accordingly. During EOD cycle, the system generates consolidated credit advice message at securitization contract level.

Holiday Periods

After product default, the system disables the 'Holiday Periods' section. You can click on the 'Edit Holiday Periods' button to edit the holiday periods. After changing the details, the system re-computes the schedules. On saving the contract, the system prompts the changed details.

You can specify the following detail here:

Period

Select the period for which repayment holiday is to be given to the customer. The holiday periods maintained in the system are displayed in the adjoining option list. If the selected repayment holiday period exceeds 'Interest Only Period' field in the 'Product' screen, the system will display an appropriate error message.

For details on repayment holidays for amortized loans, please refer to the section 'Repayment Holiday for Amortized Loans' in this chapter.

UDE Rate Plan Dates

Start Date

The start date from which the rate plan change can be done is displayed here. However, you can modify this value at loan account level.

End Date

The end date till which the rate plan change can be done is displayed here. However, you can modify this value at loan account level.



Based on the product maintenance, the 'Rate Plan Change' details are defaulted to the loan account and this can be modified.

Intermediary Details

You can capture the Intermediary Details at the loan account level to keep track of the accounts created through Intermediaries. You can link multiple intermediaries to a single loan through CL account details screen. In case of multiple intermediaries, you need to maintain the applicable intermediary percentage against each intermediary for the loan.

Intermediary Initiated

Check this box to indicate that the loan has been initiated by an intermediary.

Intermediary Code

If you have checked the box 'Intermediary Initiated', you need to specify the code of the intermediary who has initiated the loan. The adjoining option list displays all valid and active intermediary codes maintained in the system. You can select the appropriate one. Using this option you can link multiple intermediaries along with the respective percentage for the individual intermediary against the loan amount.



Both the fields are disabled after the first authorization of the loan. They field cannot be modified during value-dated amendment and rollover operation.

Intermediary Name

System defaults the intermediary name once the intermediary code is specified.

Intermediary Ratio

Specify the ratio of individual intermediary contribution against the loan amount.

Example:

Loan description is as below:

Loan Description	Home Loan
Loan Amount	5000
Intermediary 1 Contribution	2500
Intermediary 2 Contribution	2500

While creating the above loan contract in FCUBS, link intermediary 1 and intermediary 2 with the loan and maintaining 50% ratio for each intermediary.



Sum of intermediary's ratio need not be equal to 100.

Note that adjustment of commission and charge computed for the intermediary (in the past cycle) should be done manually in case of a reversal of any transaction done by the intermediary post the computation.

Loan Statements

You can specify the following details for the generation of the loan statements:

Start Date

Specify the start date for the loan generation statement, using the adjoining calendar.

Frequency

Select the frequency of the generation of loan statement, from the adjoining drop-down list. The list displays the following values:

- Daily
- Monthly
- Quarterly
- Half Yearly
- Yearly

Frequency Unit

Specify the unit of frequency for the statement generation.



If the above preferences are not maintained, the system will generate the loan statements as per the loan advices maintained in 'Notices and Statements' screen at the product level. If the Loan Statement details are not maintained at the product level, the system will not allow you to maintain the loan statement preferences for the contract. The system checks the product level preferences during EOD or BOD batches. You can also amend the loan statement preferences using 'Value Date Amendment' screen.

5.2.3 Components Tab

Clicking against the 'Components' tab in the 'Account Details' screen invokes the following screen:

The screenshot displays the 'Account Details' window with the 'Components' tab selected. The window is divided into several sections:

- Account Information:** Agreement Id, Product, Application Number, Mandatory Collateral Coverage(%), Branch Code, Account, Alternate Account Number, Version No, User Reference, User Defined Status, and Derived Status.
- Navigation:** Main, Preferences, **Components**, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, Unidirecto.
- Component Details:** Component Name, Calculation Type, Formula With Schedule (dropdown), Component Currency, Special Interest Amt (checkboxes for Waive, Main Component, Verify Funds), Liquidation Mode (Auto dropdown), Days in Month, Days in Year, Penal Basis Component, Service Branch, Service Account, Settlement Currency, Internal Rate of Return Applicable, Special Component, Funded During Initiation, and Funded During Rollover.
- Payment Details:** Payment Details, Revisions, Disbursals, Edit Schedules, Explode Schedules, Schedule Details, Guarantor Details, Collection Mode, Collection Branch, Collection Account, and Consider Uncollected Overdraft Limits (checkbox).
- Rate Conversion Preference:** Rate Period (Actual dropdown), Days In Year For Rate Conversion (Actual dropdown).
- Schedule Definition:** A table with columns: Schedule Type, Schedule Flag, Formula, First Due Date, No of Schedules, Frequency, Units, Due Date O. One row is visible: Payment, Normal, [Formula], [Date], [No of Schedules], [Frequency], Daily, [Due Date O].
- Footer:** Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, Installment Query, SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, Disbursement Modes Details, Input By, Authorized By, Status, Date Time, Date Time, Authorization Status, and a Cancel button.

You can specify the following details for the components:

Component Currency

The system displays the currency associated with the component in this field. The value is defined at Product level.

Special Interest Amount

Specify the amount for the special interest in this field

Settlement Currency

Select the settlement currency for the option list. Click the adjoining option list to choose a settlement currency from the list of currencies. Double click on a value to select it.

In case of a subsidy loan, the system displays the settlement currency based on the subsidy customer ID specified in the 'Main' tab. However you can change it. The settlement currency is maintained as a default for both Credits and Debits.

Component Type

You can indicate the nature of the component. This is also known as the 'Reporting Type'. It defines the manner in which the component should be classified for reporting/accounting purposes. A component can be of one of the following types:

- Reimbursement: these are components which have both Dr and Cr mapped to settlement accounts
- Off-Balance Sheet (OBS): An OBS Component will have balances but these need not be zero when an account is closed
- Adhoc Charges
- Charge
- Tax
- Insurance
- Interest
- Provisioning
- Deposit

Main component

The system selects the component of the loan designated as main component in the product level in this field

Verify Fund

You can indicate whether the system should verify the availability of sufficient funds in the customer account before doing auto liquidation of the component

Capitalized

Select this option if the scheduled amounts are to be capitalized

Waive

Select this option to waive the component for the account



The system does not select it by default

Liquidation Mode

The system defaults the mode of liquidation from the product level. However you can modify the same to indicate the mode of liquidation of the component from the drop-down list. The following options are available for selection:

- Auto
- Manual



This is applicable only if 'Liquidation mode' is selected as 'Component' at the account preference level.

Special Component

Select this option to denote if the component is a special Interest type. This implies that the computed value of the component can be overridden with the entered value

IRR Applicable

Check this option to indicate that the component is to be considered for IRR calculation for the account. This field is applicable to interest, charge and fee components. For adhoc charge, charge, penalty and prepayment penalty components, the value will be defaulted from the product level and you will not be able to modify it.

This field will not be available for input if 'Accrual Required' and 'IRR Applicable' are left unchecked at the product level.



Note the following:

- For bearing type of component formula this option will be enabled only if 'Accrual Required' is checked for the component at the product level
- For discounted or true discounted type of component formula this option will be allowed irrespective of whether the 'Accrual Required' option is checked or not at the product component level
- If the option 'Accrual Required' is unchecked and 'IRR Applicable' is checked, then discounted component will be considered as a part of total discount to be accrued for Net Present Value (NPV) computation
- If both 'Accrual Required' and 'IRR Applicable' are checked, then discounted component will be considered for IRR computation
- Upfront Fee component will be considered for IRR only when 'Accrual Required' and 'IRR Applicable' both are checked
- For upfront fee component, if 'IRR Applicable' is checked, then 'Accrual Required' has to be checked
- Post securitization, the accrual event's credit and debit GL account will be pointing to the same SPV Bridge GL, so that the accrual is nullified.

Funded During Initiation

This field indicates if the component can be funded during the INIT event.

Funded during Rollover

Select this option if the component can be funded during the rollover process.

Penal basis Comp options

The system displays the Penal basis for calculating penalty component in this field.

Service Branch

Click the option list to select the branch that services the customer account

Double click on a value to select it

Service Account

Click the option list to select the account in the service branch.

Double click on a value to select it.

All modes except CASA needs service account. Adjustments etc. will be settled through this account.

Days in month

Select the number of days to be considered in a month for component computation from the adjoining drop-down list. The list displays the following options:

- **Actual:** This implies that the actual number of days is considered for calculation. For instance, 31 days in January, 28 days in February (for a non-leap year), 29 days in February (for a leap year) and so on
- **30 (EURO):** In this case, 30 days is considered for all months including February, irrespective of leap or non-leap year
- **30 (US):** This means that only 30 days is to be considered for interest calculation for all months except February where the actual number of days is considered i.e. 28 or 29 depending on leap or non-leap year

The value selected here corresponds to the Numerator part of the Interest method

The value is defaulted from the loan product and you can override it here. The system picks up this value at the account level only if you have unchecked the 'Interest Method Default from Currency Definition' box at the product level ('Components' sub-screen).

Collection Mode

Select the settlement mode for the component from the adjoining drop-down list. The list displays the following values:

- Loan Account
- Installment
- CASA

You need to select 'CASA' to indicate that the collection has to be done from an internal current or saving account.

You need to select 'Loan Account' to indicate that the collection is to be deducted from disbursement amount. In this case, the settlement account will be same as credit Settlement Bridge that is configured at product level.

You need to select 'Installment' to indicate that the collection is to be calculated and collected later as part of installment payment.

Collection Branch

Specify the collection account branch when settlement mode is 'CASA'. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Collection Account

Specify the collection account when settlement mode is 'CASA'. The adjoining option list displays all the valid accounts maintained in the system for the selected collection branch. You can choose the appropriate one.

Consider Uncollected Overdraft Limits

Check this box to consider uncollected and overdraft funds limits for available balance calculation. This is applicable only if Overdraft/Uncollected are allowed in liability system for the selected account.

If Overdraft/Uncollected is allowed in the Liability system and in Assets, this box is checked, the system will consider overdraft/uncollected limit.

If Overdraft/Uncollected is allowed in the Liability system and in Assets, this box is not checked, the system will not consider overdraft/uncollected limit.

If Overdraft/Uncollected is not allowed in the Liability system and in Assets, the system will not consider overdraft/uncollected limit irrespective of the preference in this field.

Rate Period

Select the rate period from the adjoining list of values:

- Actual
- Daily
- Weekly
- Fortnightly
- Monthly
- Quarterly
- Half Yearly
- Yearly

Actual is the default value. If the 'Rate Conversion Preference' i.e. 'Rate Period' is 'Actual', then the number of days, are calculated as per the days in month parameter at 'Loan Account'.

Days in year

Specify the days in year from the adjoining drop down list.

Maintaining Schedule Details

This section is disabled both on product defaulting and enriching. You can modify any component details by clicking 'Edit Schedules' button.

The following details are captured here:

Schedule Type

Select the type of schedule from the option list. Schedule can be a payment, a disbursement or a rate revision schedule.



Post Securitization, the system consolidates all the changes of the pool and sends consolidated information to SPV. You need to pass additional income/expense on account rate revision on SPV. If the loan tenor has been increased, the system generates the advice message and sends it to SPV.

Schedule Flag

Select the option for the Schedule flag from the option list.

The options are Normal or Moratorium.

Select the option Moratorium if there are no scheduled repayments for the component for the Moratorium period. However the component is accrued for a certain Moratorium period.

Formula

Enter the formula used to compute the component for that schedule.

First Due Date

Enter the first due date for the schedule for the component. The first due date can be defined based on the value date for the loan or a calendar date.

Number of Schedules

Enter the number of times the schedule is repeated for a chosen frequency for the schedule. If the Frequency is Monthly and Number is 1, it implies once a month.

Frequency

This implies the number of times the schedule will repeat for a Unit. If it is 2 and the Unit is Monthly, it implies twice a month.

Units

Enter the installment unit for the component for the schedule. The units of frequency definition can be Daily, Weekly, Bullet, Monthly, Quarterly, Half Yearly or Yearly.

Select the unit of the schedule from the option list.

Due Dates On

This option may be used to schedule an installment on a particular date of the month.

End Date

End date for the component for the schedule will be computed from the start date, frequency, unit and number for the schedule.

Amount

The amount of payment done (whether disbursement or repayment) is displayed in this field.

Capitalize

Select this option if the schedule amounts are to be capitalized.

Waive

Select this option to specify if you need to allow a waiver of the component payments for the schedule



The system by default does not select this option

A schedule can be either applicable or capitalized or waived

After making necessary changes click 'Explode Schedule Details' button to re-compute the schedules. You can view the following details:

Schedule Number

The system generates and displays a sequential schedule number for installments

Due Date

The system displays the due date of the payments and disbursements in this field

Pay By Date

The system will display the pay by date.

Pay by date = (Schedule due date) + (Credit days maintained at product level)

On clicking the 'Default Method' button in the 'Product Definition' screen, the MAIN_INT schedules are exploded and the system will display the pay by dates based on the value of the First Pay By Date. If you have not entered the first pay by date details then the system will calculate the first pay by date as follows:

(First Schedule Due Date of MAIN_INT component) + (Credit days (product parameter for OLL))

Pay by date for bullet schedule (PRINCIPAL and MAIN_INT) will be the maturity date of the open line loan account.

Amount Settled

The system displays the settlement amount for the schedule in this field

Amount Due

The system displays the amount due for the schedule in this field

EMI Amount

The EMI that should be repaid in this schedule is displayed in this field

Amort Prin Details

The system displays the principal that has to be amortized in this field. This field will be relevant for the Interest component that is being amortized.

Accrued Amount

In this field, the system displays the amount accrued for the component for the schedule

Capitalize

The flag is used to display that the schedule installment is capitalized

Waive

Select this option to indicate if this particular amount which is due will be waived or not.

STOP On save, the system checks schedule of Insurance component with Main interest component (Frequency Unit, Frequency, Start Reference, Start Date, and No of Schedules), if schedules are not same then system displays the following error message:

'Insurance Schedule should be same as of Main Interest component'

5.2.3.1 Specifying Guarantor Details

Click 'Guarantor Details' button under the 'Components' tab in the 'Account Details' screen, to invoke 'Guarantor Details' screen.

The screenshot shows a software window titled "Guarantor Details". At the top, there are two input fields: "Account" and "Component Name". Below these are two data grids. The first grid is titled "Guarantor Customer" and has columns for "Sequence Number", "Account Number", and "Customer Name". The second grid is titled "Guarantor Customer Account" and has columns for "Sequence Number", "Account Number", "Account Branch", and "Currency". Both grids have a "1 of 1" indicator and a search icon. At the bottom right, there are "Ok" and "Exit" buttons.

STOP If you check the 'Use Guarantor for Repayment' box and not specify the guarantor details, then the system will display an error message.

You can specify guarantor account details here.

Account

Account number for which repayment is due is defaulted here, from the 'Account Details' screen.

Component Name

Name of the component for which repayment is computed is defaulted here, from the 'Component' tab in the 'Account Details' screen.

Guarantor Customer

You can specify customer details of the guarantor here.

Sequence Number

Serial number of the guarantor account is defaulted here. If multiple guarantor accounts are provided, then the system follows sequence number for the liquidation order.

Account No.

Select a valid customer id for the guarantor from the adjoining option list.

Customer Name

The customer name of the selected customer id is defaulted here.

Guarantor Customer Account

You can specify account details of the guarantor here.

Sequence Number

Serial number of the guarantor account is defaulted here. If multiple guarantor accounts are provided, then the system follows sequence number for the liquidation order.

Account No

Select a valid account number for the guarantor from the adjoining option list. This adjoining option list displays all valid accounts for a selected customer id maintained at the guarantor customer level.



Note the following:

- If the selected account number is already a guarantor to another primary settlement account, then the system will display an override message indication the same.
- If the guarantor and primary settlement account are interchanged for a different loan account, then the system will display an error message.

Account Branch

The current branch code of the selected guarantor account is defaulted here.

Currency

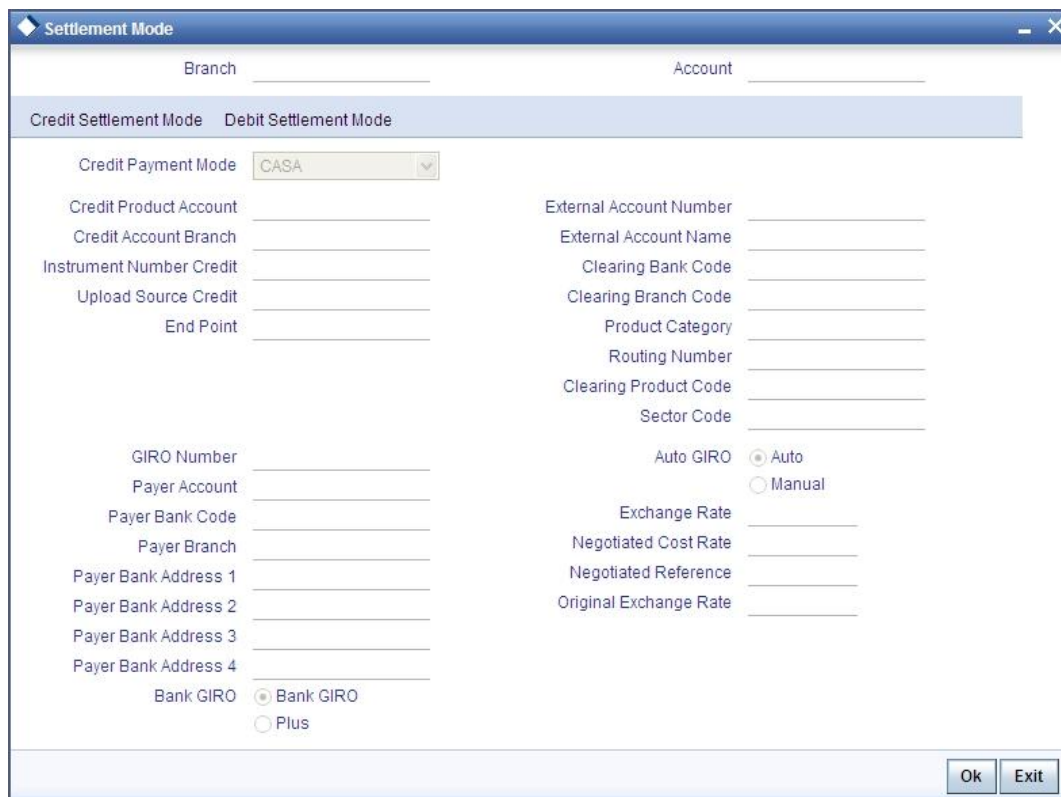
The currency of the guarantor account is defaulted here.



Guarantor currency type can be different from component currency type.

5.2.3.2 Specifying Payment Mode Details

You can specify the details of payment mode in the 'Settlement Mode' screen. To invoke the screen, click 'Payment Mode Details' button under 'Components' tab in the 'Account Details' screen.



The image shows a screenshot of the 'Settlement Mode' dialog box. The dialog has a title bar with a diamond icon and the text 'Settlement Mode'. Below the title bar, there are two input fields: 'Branch' and 'Account'. A horizontal bar below these fields is split into 'Credit Settlement Mode' and 'Debit Settlement Mode'. Under 'Credit Settlement Mode', there is a 'Credit Payment Mode' dropdown menu currently set to 'CASA'. Below this are several input fields: 'Credit Product Account', 'Credit Account Branch', 'Instrument Number Credit', 'Upload Source Credit', and 'End Point'. Under 'Debit Settlement Mode', there are input fields for 'External Account Number', 'External Account Name', 'Clearing Bank Code', 'Clearing Branch Code', 'Product Category', 'Routing Number', 'Clearing Product Code', and 'Sector Code'. Below these are radio buttons for 'Auto GIRO' (selected) and 'Manual', followed by 'Exchange Rate', 'Negotiated Cost Rate', 'Negotiated Reference', and 'Original Exchange Rate'. At the bottom left, there are radio buttons for 'Bank GIRO' (selected) and 'Plus'. At the bottom right, there are 'Ok' and 'Exit' buttons.

Here you can specify the following details:

Branch

Specify the branch in which the customer account resides.

Account

Specify the unique number of the account in the specified branch.

Credit Settlement Mode Tab

You can specify the credit settlement details under the 'Credit Settlement Mode' in the 'Settlement Mode' screen.

Credit Payment Mode

Select the credit payment mode from the adjoining drop-down list. The list displays the following values:

- CASA
- Credit Card
- Clearing
- Debit Card
- External Account
- Electronic Pay Order
- GIRO
- Internal Cheque
- Instrument
- Cash/Teller
- Credit Note



Note the following:

- For auto-disbursement products, you can maintain credit note as the settlement mode. While triggering DSBP event, the system generates the instrument number.
- You need to maintain Credit Note (CNT) as a settlement mode in the 'Multimode Settlement' screen. This is used by the system internally for accounting entries.

Credit Product Account

Specify the account number of the credit product.

Credit Account Branch

Specify the name of the branch in which the credit account should be maintained.

Instrument Number Credit

Specify the instrument number that should be used for credit payment.

Upload Source Credit

Specify the upload source that should be used for credit payment.

End Point

Specify the end point maintained in the clearing system. The adjoining option list displays all valid end points maintained in the system. You can choose the appropriate one.

External Account Number

Specify the external account number.

External Account Name

Specify the name of the beneficiary who is holding the external account.

Clearing Bank Code

Specify the code of the external bank that should be used for clearing maintenance. The adjoining option list maintains all valid banks maintained in the system. You can choose the appropriate one.

Clearing Branch Code

Specify the branch code of the specified external bank that should be used for clearing. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

Product Category

Specify the category of the product. The adjoining option list displays all valid products maintained in the system. You can choose the appropriate one.

Routing Number

Specify the routing number of the specified branch for clearing.

Clearing Product Code

Specify the product code that should be used for clearing. The adjoining option list displays all valid code maintained in the system. You can choose the appropriate one.

Sector Code

Specify the code of the sector that should be used for clearing. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

Giro Number

Specify the GIRO number of the corporate customer.

Payer Account

Specify the account from which the amount should be paid.

Payer Bank Code

Specify the code of the payer's bank that should be used for the payment of amount.

Payer Branch

Specify the branch of the specified payer's bank that should be used for the payment of amount.

Payer Bank Address 1-4

Specify the address of the bank that should be used for the payment of the amount.

Bank GIRO

Indicate the type of bank GIRO that should be used for corporate customers. You can select one of the following:

- Bank GIRO
- Plus

Auto GIRO

Indicate the type of the Auto GIRO for automatic direct debit. You can select one of the following values:

- Auto
- Manual

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

You can change the defaulted rate provided the change is within the variance level maintained for the underlying product.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual.

Negotiated Cost Rate

Specify the negotiated cost rate that should be used for foreign currency transactions between the treasury and the branch. You need to specify the rate only when the currencies involved in the transaction are different. Otherwise, it will be a normal transaction.

The system will display an override message if the negotiated rate is not within the exchange rate variance maintained at the product.

Negotiated Reference No

Specify the reference number that should be used for negotiation of cost rate, in foreign currency transaction. If you have specified the negotiated cost rate, then you need to specify the negotiated reference number also.



Oracle FLEXCUBE books the online revaluation entries based on the difference in exchange rate between the negotiated cost rate and transaction rate.

Original Exchange Rate

The base or actual exchange rate between the account currency and settlement currency gets displayed here.

Debit Settlement Mode Tab

You can specify the debit settlement details under the 'Debit Settlement Mode' in the 'Settlement Mode' screen.

The screenshot shows a software window titled "Payment Mode" with a close button (X) in the top right corner. Below the title bar, there are two input fields: "Branch" and "Account". The window is divided into two tabs: "Credit Settlement Mode" and "Debit Settlement Mode", with the latter being the active tab. The "Debit Settlement Mode" tab contains several fields and options:

- Debit Payment Mode:** A dropdown menu currently showing "CASA".
- Debit Account Branch:** A text input field with a red arrow icon.
- External Account Number:** A text input field.
- Clearing Bank Code:** A text input field with a red arrow icon.
- Instrument Number Debit:** A text input field.
- End Point:** A text input field with a red arrow icon.
- Clearing Product Code:** A text input field with a red arrow icon.
- Upload Source Debit:** A text input field with a red arrow icon.
- Card Number:** A text input field.
- Debit Product Account:** A text input field with a red arrow icon.
- External Account Name:** A text input field.
- Clearing Branch Code:** A text input field with a red arrow icon.
- Product Category:** A text input field with a red arrow icon.
- Routing Number:** A text input field.
- Sector Code:** A text input field with a red arrow icon.
- Include Uncollected Fund Limits:** An unchecked checkbox.
- Include Overdraft Limits:** An unchecked checkbox.
- CASA Account:** A text input field with a red arrow icon.
- GIRO Number:** A text input field.
- Bank GIRO:** A radio button.
- Payer Bank Name:** A text input field.
- Payer Account:** A text input field.

At the bottom right of the window, there are "Ok" and "Cancel" buttons.

Here you can specify the following details:

Debit Payment Mode

Select the Debit payment mode from the adjoining drop-down list. The list displays the following values:

- CASA
- Credit Card
- Clearing
- Debit Card

- External Account
- Electronic Pay Order
- GIRO
- Internal Cheque
- Instrument
- Cash/Teller

Debit Product Account

Specify the account number of the debit product.

Debit Account Branch

Specify the name of the branch in which the debit account should be maintained.

Instrument Number Debit

Specify the instrument number that should be used for debit payment.

Upload Source Debit

Specify the upload source that should be used for debit payment.

End Point

Specify the end point maintained in the clearing system. The adjoining option list displays all valid end points maintained in the system. You can choose the appropriate one.

External Account Number

Specify the external account number.

External Account Name

Specify the name of the beneficiary who is holding the external account.

Clearing Bank Code

Specify the code of the external bank that should be used for clearing maintenance. The adjoining option list maintains all valid banks maintained in the system. You can choose the appropriate one.

Clearing Branch Code

Specify the branch code of the specified external bank that should be used for clearing. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

Product Category

Specify the category of the product. The adjoining option list displays all valid products maintained in the system. You can choose the appropriate one.

Routing Number

Specify the routing number of the specified branch for clearing.

Clearing Product Code

Specify the product code that should be used for clearing. The adjoining option list displays all valid code maintained in the system. You can choose the appropriate one.

Sector Code

Specify the code of the sector that should be used for clearing. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

Include Uncollected Fund Limits

Check this box to indicate that the uncollected fund limits is to be utilized from CASA.

Include Overdraft Limits

Check this box to indicate that the overdraft limits are to be considered for available balance calculation when the payment mode is CASA.

Payer Account

Specify the account from which the amount should be paid.

Payer Bank Code

Specify the code of the payer's bank that should be used for the payment of amount.

Payer Branch

Specify the branch of the specified payer's bank that should be used for the payment of amount.

Payer Bank Address 1-4

Specify the address of the bank that should be used for the payment of the amount.

GIRO Number

Specify the GIRO number of the corporate customer.

Bank GIRO

Indicate the type of bank GIRO that should be used for corporate customers. You can select one of the following:

- Bank GIRO
- Plus

Auto GIRO

Indicate the type of the Auto GIRO for automatic direct debit. You can select one of the following values:

- Auto
- Manual

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

You can change the defaulted rate provided the change is within the variance level maintained for the underlying product.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual.

Negotiated Cost Rate

Specify the negotiated cost rate that should be used for foreign currency transactions between the treasury and the branch. You need to specify the rate only when the currencies involved in the transaction are different. Otherwise, it will be a normal transaction.

The system will display an override message if the negotiated rate is not within the exchange rate variance maintained at the product.

Negotiated Reference No

Specify the reference number that should be used for negotiation of cost rate, in foreign currency transaction. If you have specified the negotiated cost rate, then you need to specify the negotiated reference number also.



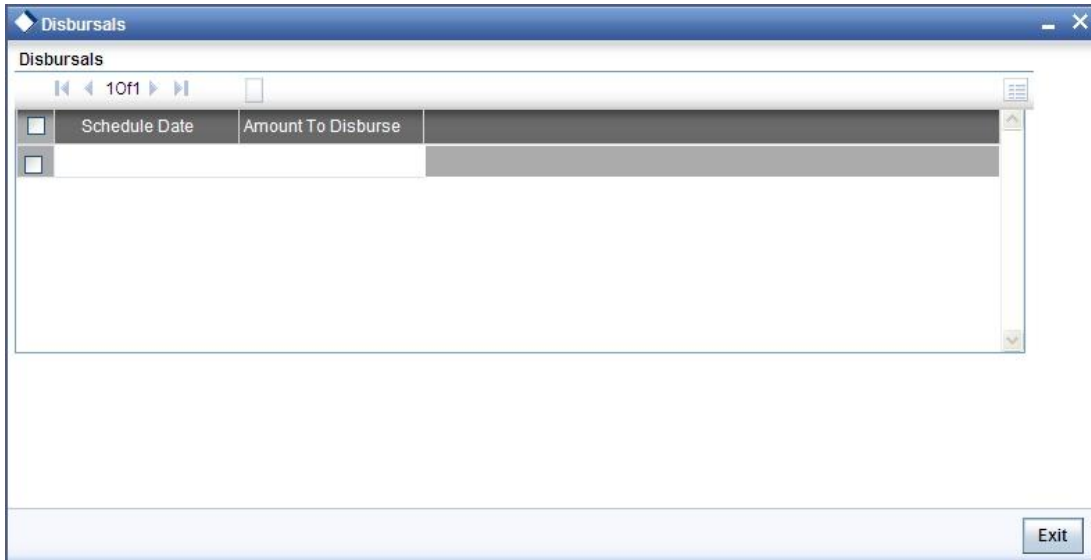
Oracle FLEXCUBE books the online revaluation entries based on the difference in exchange rate between the negotiated cost rate and transaction rate.

Original Exchange Rate

The base or actual exchange rate between the account currency and settlement currency gets displayed here.

5.2.3.3 Viewing Disbursals

Select the Principal Component. Click 'Disbursals' to see the Disbursal schedule. This gives the list of Schedules for the disbursements and their corresponding Disbursement amounts.



You can check the details of the due date of the schedule and the Amount to be disbursed from the Sch Due date field and the Amount To Disburse field respectively.

STOP If any disbursal results in a status change for the account, the system will update the current status for the account in the 'Derived Status' field. During end-of-day batch processing, it will update the 'User Defined Status' for the account with the worst status that is available for all accounts and loans for this CIF and post the required accounting entries for the change.

During Amendments/Disbursements, post securitization the system raises an alert message saying:

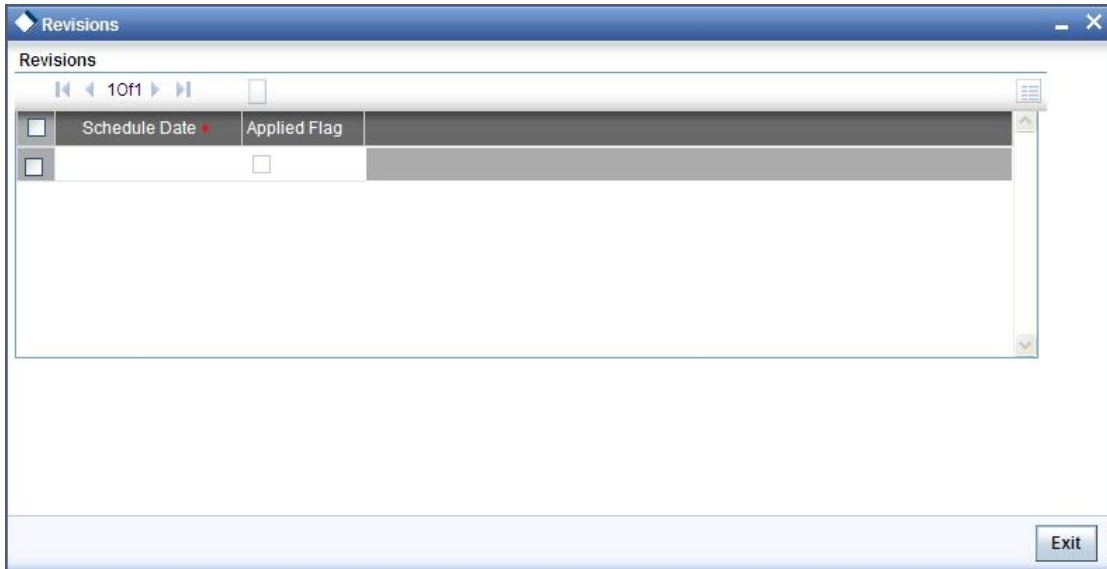
'The loan account has been securitized'

STOP In such cases, you need perform the amendments/disbursement after getting the approval from SPV.

5.2.3.4 Viewing Rate Revisions

Select a component which has rate revision defined. To view the details of the Rate revision schedule, click the 'Revisions' button. This lists the details of the revisions done on the Components.

This lists the revision date against the component name. This also has an application option which displays if the revision was applied or not



You can check the details of the name of the component that is revised and the date when it has been revised from the field Component name and Revision date respectively.

5.2.4 Charges Tab

This module is used for calculating and applying charges on an account. To calculate the charges that we would like to levy on an account, we have to specify the basis on which we would like to apply charges. For example, we may want to apply charges on the basis of the debit turnover in an account. When we define a Charge product, we have to specify the Charge basis.

When we apply the charge product on an account or an account class, charges for the account will be calculated on this basis.

The screenshot shows the Oracle Account Details application. The main area is divided into several sections:

- Account Information:** Fields for Agreement Id, Product, Branch Code, Account, Version No, User Reference, Product Category, Alternate Account Number, User Defined Status, Application Number, Mandatory Collateral Coverage(%), and Derived Status.
- Navigation:** A menu bar with tabs: Main, Preferences, Components, Charges (selected), Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, and Unidirecto.
- Charges Section:**
 - Component Name, Calculation Type (dropdown), Component Currency, Service Branch, Service Account, Settlement Currency, Effective Date.
 - Options: Funded During Initiation, Funded During Rollover, Waive.
 - Due Date, Amount Due, Amount Waived.
 - Payment Mode Details: Collection Mode (dropdown), Collection Branch, Collection Account, Consider Uncollected Overdraft Limits.
- Details Section:** A table with columns: Event Code, Amount Settled, Schedule Date. The table is currently empty.
- Bottom Bar:** Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, Installment Query, SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, Disbursement Modes Details. Below this are fields for Input By (Date Time), Authorized By (Date Time), Status (Authorization Status), and a Cancel button.

The following details are captured:

Calculation Type

To specify the manner in which the component should be calculated and liquidated. You can choose one of the following options:

Formula with schedule (Component Type - Interest)

- Formula without schedule (Charge)
- Penal Interest
- Prepayment Penalty
- Discount
- Schedule without formula (Principal)
- No schedule No formula (Ad Hoc Charges)
- Penalty Charges

Component Currency

The system displays the currency associated with the component. The component currency is defaulted from the Product level.

Settlement Currency

Click the option list to choose the details of the currency in which the payments are to be made in this field. A list of currencies is displayed. Double click on a value to select it.

Effective Date

Enter the details of the date from which the charge is applicable in this field

Service Branch

The branch that services the account - Any Valid, Open Branch

Service Account

Denotes the account in the service branch. A valid open account in the service branch .The service account is needed for all modes apart from CASA. The adjustments etc will be settled through this account.

Due Date

The date on which the charge was applied

Amount Due

Enter the details of the amount due for repayment in this field

Funded during Initiation

Select this option if the component can be funded during loan initiation

Funded during Rollover

Select this option if the component can be funded during the rollover process

For each component, the following details are displayed:

- Event Code
- Component Name: A component will be of type 'Charge'
- Amount Due: The amount due for repayment in this field
- Amount Settled: The settled amount in this field
- Schedule Due Date: The scheduled date for repayment in this field
- Waive: If this option is checked, the charge defined for event is waived off

Waiver Flag

Select this option to waive off the charges.

Collection Mode

Select the settlement mode for charge component from the adjoining drop-down list. The list displays the following values:

- Loan Account
- Installment
- CASA

You need to select 'CASA' to indicate that the charge is to be collected from an internal current or saving account.

You need to select 'Loan Account' to indicate that the charge is to be deducted from disbursement amount. In this case, the settlement account will be same as credit settlement bridge that is configured at product level.

You need to select 'Installment' to indicate that the charge is to be calculated and collected later as part of installment payment.

Collection Branch

Specify the charge settlement account branch when charge settlement mode is 'CASA'. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Collection Account

Specify the charge settlement account when charge settlement mode is 'CASA'. The adjoining option list displays all the valid accounts maintained in the system for the selected collection branch. You can choose the appropriate one.



For each charge component one IVA and one GMF component will be configured at product level. Collection Mode for IVA and GMF component will be defaulted from its parent charge component.

Consider Uncollected Overdraft Limits

Check this box to consider uncollected and overdraft funds limits for available balance calculation. This is applicable only if Overdraft/Uncollected is allowed in liability system for the selected account.

- If Overdraft/Uncollected is allowed in the Liability system and in Assets, this box is checked, the system will consider overdraft/uncollected limit.
- If Overdraft/Uncollected is allowed in the Liability system and in Assets, this box is not checked, the system will not consider overdraft/uncollected limit.

- If Overdraft/Uncollected is not allowed in the Liability system and in Assets, the system will not consider overdraft/uncollected limit irrespective of the preference in this field.



Note the following:

In case of TAX_COMPONENT:

- If 'Gross Principal' check box is not checked, and debit account details are not CASA then system displays the following error message:
- 'Debit Payment Mode should be account with CASA account number'
- Debit Payment Mode should be account with CASA account number. On save system checks available funds in CASA account (mentioned in Debit Settlement Mode). If sufficient funds are not there in CASA account to clear tax amount, then system displays the following override message:

'Insufficient funds in CASA account to pay taxes'

5.2.5 Linkage Details Tab

At the time of Loan account capture, the Linkages to securities backing the loan is captured. They include:

- The reference number of the Collateral , Collateral Pool , Line , Account , Amount block, Commitment, Guarantee Collection Bill is linked
- The amount which is attributed to the particular reference number is also captured

The account input screen captures the Linkages as shown below:

The screenshot shows the 'Account Details' window with the 'Linkage Details' tab selected. The window has a menu bar with options: Main, Preferences, Components, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, Unidirecto. Below the menu bar, there are several input fields for account information, including Agreement Id, Product, Product Category, Application Number, Mandatory Collateral Coverage(%), Branch Code, Account, Alternate Account Number, Version No, User Reference, User Defined Status, and Derived Status. The 'Linkage Details' section features a table with the following columns: Linkage Sequence Number, Linkage Type, Linkage Branch, Customer Id, Linked Reference, Linkage Amount, and Link Period. The table contains one row with the following values: Linkage Sequence Number (input field), Linkage Type (Collateral), Linkage Branch (input field), Customer Id (input field), Linked Reference (input field), Linkage Amount (input field), and Link Period (input field). At the bottom of the window, there are several tabs for other details: Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, and Installment Query. Below these tabs are more tabs: SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, and Disbursement Modes Details. At the very bottom, there are input fields for Input By, Authorized By, and Status, each with a Date Time field, and a Cancel button.

You can specify the following Linkage details:

Linkage Sequence Number

Enter the sequence number for the linkage that you are specifying

Linkage Type

Click on the list item to choose the details of the linkage type. A list of values is displayed. Double click on a value to select it

The valid values are Line, Deposit, Guarantee, Amount Block, CASA Account, Collateral Pool, Commitment and Collateral.



In case if the linkage type is Collateral or Collateral Pool then the system will allow you to enter only the type of Collateral that is maintained at the 'Product Maintenance' screen.

Linkage Branch

Select the branch of the linkage type

Customer ID

Click on 'C' button to choose the ID of the customer to be used for corresponding linkage type. A list of values is displayed. Double click on a value to select it.

A customer can either be the primary applicant or any of the other applicants for which the linkage type has been maintained.

Linkage Ref No

Click on 'L' button to choose linkage reference number be used for corresponding field.

Link %

Specify the linked percentage for the partner.

Limit Liability Number

The system will display the liability number of the credit line.

Interest Rate

Specify the TD interest rate.

Margin

Specify the margin for the limit.

Linkage Amount

Enter the linkage amount in this field

Secured Portion

Enter the part of the principal that is backed by some asset in this field.



The facility will not be available for linkage if any one of the following conditions is satisfied:

- The authorization status of the facility maintenance is 'Unauthorized'.
- The line available status of the facility is 'Not Available'.
- The record status of the facility maintenance is 'Closed'.

Refer the section 'Facilities Maintenance' in the Limits and Collaterals User Manual for more details on Facilities Maintenance screen.

5.2.6 Advices Tab

Advices that may be generated whenever the account level status changes or whenever a particular event is fired can be linked at the Product level. Priorities of the advice can be changed and also a particular advice for an event can be suppressed.

Generation of an advice across the life of the account can also be suppressed.

The screenshot displays the 'Account Details' window with the 'Advices' tab selected. The top section contains various input fields for account information, including Agreement Id, Product, Branch Code, Account, Version No, User Reference, Product Category, Alternate Account Number, User Defined Status, Application Number, Mandatory Collateral Coverage(%), and Derived Status. Below the input fields is a navigation bar with tabs: Main, Preferences, Components, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, and Unidirecto. The 'Advices' tab is active, showing a table with columns: Message Type, Suppress, Priority, and View Message. The table contains one row with a checked checkbox in the Message Type column, 'Yes' in the Suppress column, 'High' in the Priority column, and a 'View Message' link. To the right of the Advices table is a 'Supplier Advice' panel, which is currently empty. At the bottom of the window, there is a row of tabs: Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, and Installment Query. Below these tabs are more tabs: SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, and Disbursement Modes Details. The footer section contains fields for Input By (Date Time), Authorized By (Date Time), and Status (Authorization Status), along with a Cancel button.

You can specify the following Advice details:

Message Type

The system displays all the advices for all the events for the account. The list will include all the advices that are defined at the product level

Suppress

This field allows you to suppress the generation of the advice for a particular event. The options are 'Yes' and 'No'.

Priority

Click the option list to select the priority of generation. A list of values is displayed. Double click on a value to select it.

The options are High, Medium or Low

5.2.6.1 Suppress Advices across the Account

The generation of an advice across the life of the account can be suppressed.

Message Type

Click the option list to select the type of advice, the generation of which can be suppressed across the account. A list of values is displayed. Double click on a value to select it.

The list includes advices defined at the product level

You can suppress the Payment Message defaulted in case you do not need a credit through swift message.

The message is automatically suppressed if the Principal Credit Settlement account is changed to a GL or if the receiver in 'Swift Msg Details' screen is not valid to receive the message i.e, if the Customer Type of the Receiver party is not a Bank.

Also, if the settlement mode for PRINCIPAL component is anything other than CASA, the swift message is automatically suppressed.

If the Transfer Type is chosen as blank i.e, neither Customer Transfer nor Bank Transfer, then PAYMENT_MESSAGE will become CREDIT_ADVICE by Swift(MT910) if the Receiver is a bank and the credit settlement account is a current account.

5.2.7 Rollover Tab

The screenshot shows the 'Account Details' window with the 'Rollover' tab selected. The window contains several input fields for account information, a navigation menu, and a 'Roll Components' dialog box.

Account Details Fields:

- Agreement Id: [Text Field]
- Product: [Text Field]
- Product Category: [Text Field]
- Application Number: [Text Field]
- Mandatory Collateral Coverage(%): [Text Field]
- Branch Code: [Text Field]
- Account: [Text Field]
- Alternate Account Number: [Text Field]
- Version No: [Text Field]
- User Reference: [Text Field]
- User Defined Status: [Text Field]
- Derived Status: [Text Field]

Navigation Menu: Main | Preferences | Components | Charges | Linkage Details | Advices | **Rollover** | Credit Score | Fields | Check List | Unidirecto

Rollover Options:

- Allow Rollover: Yes, No
- Rollover Mode: Auto, Manual, Special, Custom
- Roll By: [Days]
- User Defined Element Rollover: Product, Contract
- Schedule Basis: Product, Contract
- Special Amount: [Text Field]

Roll Components Dialog: Shows a table with 'Component Name' and a search field. The table is currently empty.

Bottom Navigation: Promotions | Other Applicants | Payment Mode Details | Assets | Financials | Internal Rate of Return Details | MIS | Events | General Ledger Query | Installment Query | SWIFT Message Details | Statistics | Security Details | Liquidate Loans | Special Condition | Financial Assistance Details | Disbursement Modes Details

Footer: Input By: [Text Field], Date Time: [Text Field]; Authorized By: [Text Field], Date Time: [Text Field]; Status: [Text Field], Authorization Status: [Text Field]; [Cancel]

You can maintain the following details here:

Allow Rollover

Select the required option to indicate if rollover should be allowed for the loan or not. The options are:

- Yes
- No

Rollover Mode

This option is used to determine if the Rollover is system driven or not. You can select either of the following options:

- Auto - If you select the option Auto Rollover, then upon maturity, the Account will be rolled over automatically by the system Rollover batch run in BOD.
- Manual - If you select the option Manual roll over, then the system does not perform the auto rollover and you can perform a manual rollover.



By default, the system selects the 'Auto' option

Rollover Type

Select either of the following options:

- Special Amount: If your rollover is a special amount, select this option and capture the amount that has to be rolled over
- Custom: If the rollover type is 'Custom', then select the 'Component Names' that have to be rolled over

UDE Rollover

Select the required option to determine if at the time of rollover the UDE value would be defaulted from the product or from the account /Contract



The system by default does not select the option Contract

Schedule Basis

This flag will determine if at the time of rollover the schedule would be defaulted from the product or from the account/Contract



The system by default does not select the option Contract

Roll By

Specify the basis for rollover. It could be any of the following:

- Days
- Months
- Years

Rollover Components

You can maintain the following detail here:

Component

This option is applicable when Rollover Type is Custom. The option list provided will display the components relevant to the account from which you can choose the components that are to be rolled over.

5.2.8 Credit Score Tab

Click 'Credit Score' tab to specify the details for calculating the credit score.

The screenshot shows the 'Account Details' window with the 'Credit Score' tab selected. The window contains several input fields for account information and credit score details. The 'Credit Score' tab includes fields for Rule Name, Automated Score, Credit Score, Agency Code, and External Credit Score. Below these fields are buttons labeled 'Score' and 'External Credit Score'. The window also features a menu bar with options like Main, Preferences, Components, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, and Unidirecto. At the bottom, there is a status bar with fields for Input By (Date Time), Authorized By (Date Time), and Status (Authorization Status), along with a 'Cancel' button.

You need to specify the following details here:

Rule Name

The rule associated with the loan product gets defaulted here. You can modify this, if required.

Automated Score

The credit score calculated by the system based on the rules maintained at the product level gets displayed here

Agency Code

Select the code of the external agency, to be approached for calculating the score

External Credit Score

The score as calculated by the external agency is displayed here

Click 'Score' to auto-generate the credit score for the customer. Click 'External Score' to auto-generate the credit score for the Bureau.

5.2.9 Fields Tab

The User Defined Fields are defined at the Product level. These fields are available in the UDF tab at the time of account creation.

The screenshot displays the 'Account Details' window with the 'Fields' tab selected. The window contains several input fields for account information, including Agreement Id, Product, Branch Code, Account, Version No, User Reference, Product Category, Alternate Account Number, User Defined Status, Application Number, Mandatory Collateral Coverage(%), and Derived Status. Below the input fields is a navigation menu with tabs: Main, Preferences, Components, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, and Unidirecto. The 'Fields' tab is active, showing two sections: 'Character Fields' and 'Number Fields'. Each section has a table with columns 'Field name' and 'Field Value'. The bottom bar contains tabs for Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, and Installment Query. Below these tabs are tabs for SWIFT Message Details, Statistics, Security Details, Liquidate Loans, Special Condition, Financial Assistance Details, and Disbursement Modes Details. The bottom bar also includes fields for Input By (Date Time), Authorized By (Date Time), Status (Authorization Status), and a 'Cancel' button.

The following details are displayed/captured here:

UDF Description

The UDF descriptions defaulted from the Product screen are displayed. The system displays all the UDF descriptions defined at the Product level

UDF Value

Specify the UDF value in this field. This is applicable only if the user input or list of values is defined at the time of creation of the UDF

5.2.10 Check List Tab

The Check lists are maintained in the 'Check List Maintenance' screen and are linked to different events of the contract. The checklist maintained for the BOOK event is available in the Checklist tab at the time of account creation.

The screenshot shows the 'Account Details' window with the 'Check List' tab selected. The window contains several input fields for account information, a 'Check List' table, and a 'Remarks' section. The 'Check List' table has two columns: 'Description' and 'Checked'. The 'Checked' column contains checkboxes. The 'Remarks' section has 10 numbered text boxes. The bottom of the window contains a navigation bar with tabs for various account details and a 'Cancel' button.

Description	Checked
	<input type="checkbox"/>

Remarks

1

2

3

4

5

6

7

8

9

10

The following details are captured here:

Description

The description of the check list maintained for the BOOK event is displayed here

Verified

Check this box to indicate that the check list item has been verified

Remarks

Specify any additional remarks about the check list or the account in this free format text field

5.2.11 Unidirecto Tab

The Bearing Contract Details are captured here.

The screenshot shows the 'Account Details' window with the 'Unidirecto' tab selected. The window is divided into several sections:

- Account Details:** Fields for Agreement Id, Product, Branch Code, Account, Version No, User Reference, Product Category, Application Number, Alternate Account Number, User Defined Status, Mandatory Collateral, and Coverage(%).
- Unidirecto:** Fields for Bearing Product Code, Final Maturity Date, Bearing Tenor, and Bearing Unit.
- User Defined Element Values:** A table with columns: User Defined Element Id, Rate Code, Code usage, Rate Template, and User Defined Element Value. It contains one row with a checked checkbox in the first column.
- Component Details:** A section with a 'Component Name' field.
- Schedule Definition:** A table with columns: Sequence Number, Schedule Type, Schedule Flag, Formula Name, First Due Date, No of Schedules, Frequency, and Units. It contains one row with a checked checkbox in the first column.
- Navigation and Footer:** A bottom bar with various tabs like Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, and Installation Query. It also includes fields for Input By, Authorized By, Status, Date Time, and Authorization Status, along with a 'Cancel' button.

Specify the following details:

Bearing product code

It displays the bearing product code to be considered for special rollover on maturity.

Bearing Tenor

Specify the Tenor of the Bearing product code on SROL.

Bearing Tenor Unit

Select the tenor unit from the adjoining drop down list. Default value is 'Days'.

Final Maturity Date

It displays the Final maturity considering the bearing period and the holiday treatment on maturity.

User Defined Element ID

It displays the User Defined Element ID.

Effective Date

Specify the effective date.

Rate Code

Specify the rate code.

Code Usage

Select the code usage from the adjoining drop down list.

Rate Template

Specify the rate template.

User Defined Element Value

Specify the User Defined Element Value.

Component Name

It displays the component name.

Sequence Number

Specify the sequence number.

Schedule Type

Select the schedule type from the adjoining drop down list.

Schedule Flag

Select the schedule flag from the adjoining drop down list.

Formula Name

Specify the formula name. The adjoining option list displays all the formula names maintained in the system. You can choose the appropriate one.

First Due Date

Specify the first due date. The adjoining option list displays all the first due dates maintained in the system. You can choose the appropriate one.

No Of Schedules

Specify the number of schedules.

Frequency

Specify the frequency.

Units

Select the Units from the adjoining drop down list.

Schedule End Date

Specify the schedule end date. The adjoining option list displays all the schedule end dates maintained in the system. You can choose the appropriate one.

Capitalized

Check this box to indicate that it is capitalized.

Waiver Flag

Check this box to indicate that it is waiver.

Schedule Start Date

Specify the schedule start date.

- During loan creation, system is enhanced to default the bearing product from the discounted product, as defined above. This is under Unidirecto tab.
- Provide all other details during account creation, Bearing Tenor and Bearing Tenor Unit are used to calculate the Final maturity date. Final maturity date is calculated using current maturity date as value date and Bearing Tenor and Bearing Tenor Unit. Holiday treatment from bearing product is used to calculate Final maturity date. If the definition of tenor of loan is through Bearing Tenor/ Bearing Unit, system builds one bullet schedule for the Bearing tenor.

- To have bearing loan with schedules (regular or irregular), define the tenor by availing the component schedule parameter. Both Bearing Tenor / Bearing Unit parameter and Component Schedule details are not allowed. During the loan creation system builds discounted schedule using component schedule details provide for each component.
- “National Collateral Fund” and “Life Insurance” component are calculated using the Final maturity date (Single Premium). SDE, FINAL_MATURITY_DATE is used for the same.

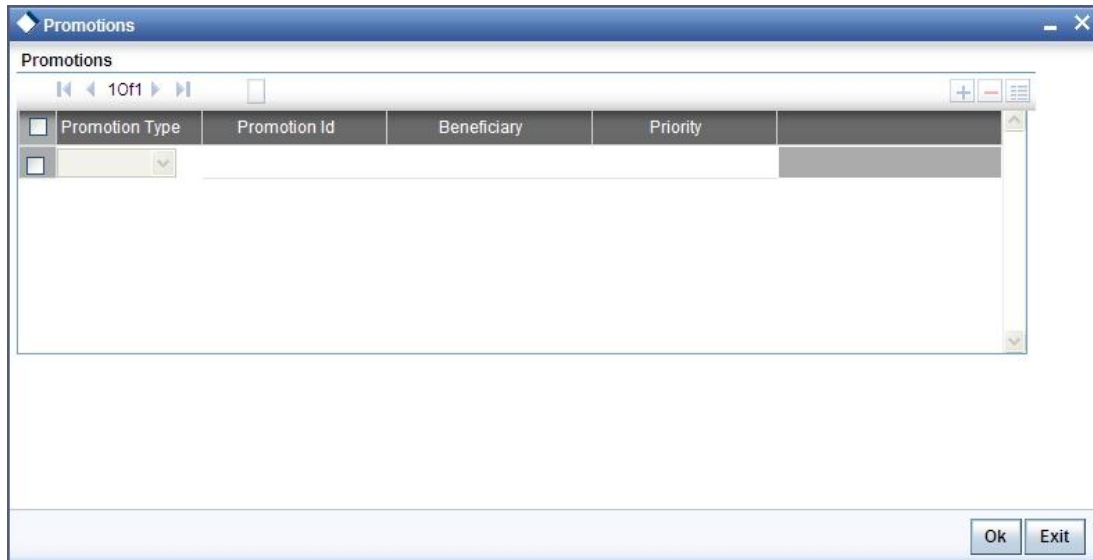


Commission billing frequency for “National Collateral Fund” for Unidirecto Product can be any of “Annual Discounted” or “Discounted – Short Term”.

- Modification of Bearing period does not happen during discounted period.
- During the loan creation, system provides an override message if the collateral expires before the final maturity date of the bearing period of the loan.

5.2.12 Specifying Promotions

Invoke the 'Promotions' screen by clicking the 'Promotions' button in the 'Account Details' screen.



The following details are captured here:

Promotion Type

The system displays the Promotion type to which the original loan is linked. It could be any of the following:

- CONVENIOS
- PROMOTION
- CORFO
- FOGAPE

Promotion ID

The system displays the promotion ID in this field

Beneficiary

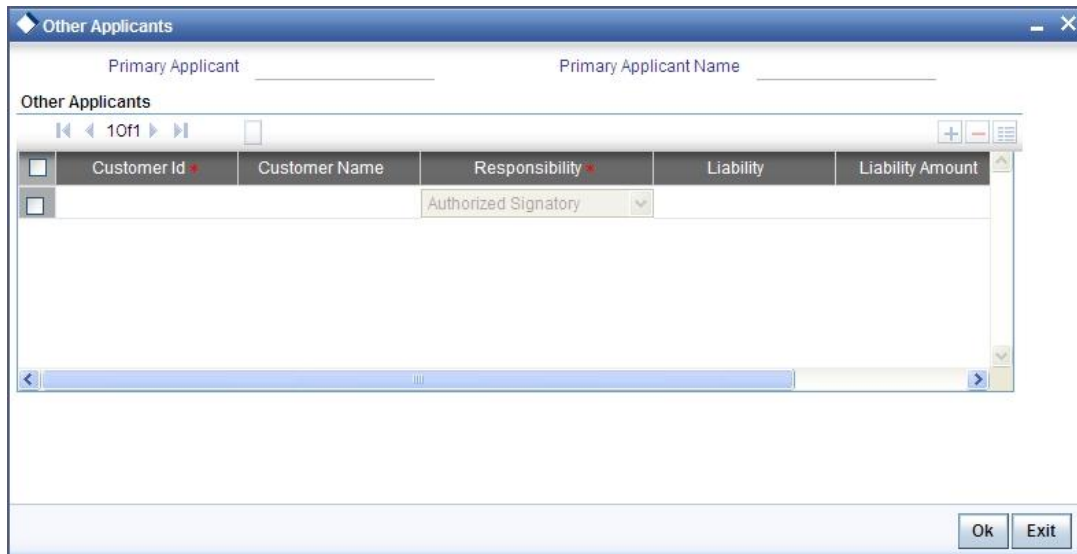
The system displays the beneficiary CIF in this field

Priority

The system displays the priority assigned to the promotion.

5.2.13 Specifying Other Applicants Details

You can maintain the primary and other applicants details in the 'Other Applicants' screen. Click the 'Other Applicants' button to invoke the screen.



The screenshot shows a window titled "Other Applicants". At the top, there are two text input fields: "Primary Applicant" and "Primary Applicant Name". Below these is a table with the following columns: "Customer Id", "Customer Name", "Responsibility", "Liability", and "Liability Amount". The "Responsibility" column has a dropdown menu currently showing "Authorized Signatory". There are also "Ok" and "Exit" buttons at the bottom right of the window.

You can maintain the following details of the Primary applicants:

Primary Applicant

This detail is defaulted from the main screen. Enter the Customer ID of the primary applicant in this field

Primary Applicant Name

After you enter the Customer ID, the system displays the Name of the primary applicant in this field

Other Applicants

The details of the liability parties to the account are maintained in this field. Other Applicants of a loan include Co-signers and Guarantors.

You can specify the following details of the Co-applicants:

Customer ID

To select the customer ID of the co-applicant, click the option list. A list of customer IDs is displayed. Double click to select the customer ID of the co-applicant.

Customer Name

After you enter the name of the Customer, the system displays the name of the customer in this field.

Responsibility

Select the details of the co-applicants and their responsibility as a Co-signer or as a guarantor from the option list. You can enter the details like the guarantor, co-signer, main addressee, advice notice receiver, and borrower etc., who is relevant to a joint account relationship. During initiation of the account, the primary customer is defaulted to 'Borrower' with 100% Liability and value date as the effective date. You are allowed to maintain multiple applicants (customer id) for a loan with the same responsibility (Borrower).



While there is no processing impact, the difference will become important when the original debtor is absconding and the loan is unpaid etc.

Liabilities%

Specify the contribution of the co-applicants to the Loan. You can specify the Liability of the co-applicant if any, in case of a Loan default. You can also specify the percentage of interest split among different co-applicants. It is not made mandatory to maintain 'Liability %' for the responsibility 'Borrower'. There could be borrowers with 0% liability.




The sum of 'Liability %' for all the customers of a loan to be equal to 100%

Liability Amount

The system calculates and displays the upper limit of the liability in terms of the amount in this field. You may override the computed value.

Effective Date

This field is used to capture the date from which the % interest split among co-applicants of the loan will be taken into consideration. During the initiation of the loan, the value date of the loan will be defaulted as the effective date. During VAMI, the same effective date will be retained, you can however edit it.

 The effective date cannot be a date prior to the loan initiation date. It is also necessary that there is one record for the initiation date. The effective date for all the applicants is the same.

5.2.14 Maintaining Payment Mode Details

The debit and credit settlement mode details for the account can be maintained in the 'Settlement Details' screen. You can invoke this screen by clicking the 'Payment Mode' button in the 'Main' tab.

The screenshot shows a 'Payment Mode' dialog box with the following fields:

- Branch
- Account
- Credit Settlement Mode
- Debit Settlement Mode
- Credit Payment Mode (dropdown menu showing 'CASA')
- Credit Account Branch
- Upload Source Credit
- Clearing Bank Code
- Instrument Number Credit
- Clearing Product Code
- End Point
- External Account Number
- Product Category
- Credit Product Account
- Clearing Branch Code
- Routing Number
- Sector Code
- External Account Name

Buttons: Ok, Exit

The options for debit mode are CASA, Credit Card, Debit Card, Clearing, External Account, Electronic Pay Order, Internal Check, Instrument, GIRO and Cash/Teller.

The options for credit mode are CASA, Clearing, External Account, Instrument, and Cash/Teller.

You can maintain the following details here:

- CASA:
 - Branch: Click the option list to choose the branch in which the customer account resides. Double click on a branch to select it
- Account: Click the option list to choose the account in the branch selected. Double click on an account to select it. Credit Card / Debit Card
 - Card Number: This field captures either the Credit No or the Debit No details based on the selection

The card must be a valid card whose number can be checked with a modulo logic or maintenance file

- Clearing Network
 - Clearing Bank Code: Click the option list to select the bank code as per clearing maintenance. Double click on a bank code to select it
 - Clearing Branch Code: Click the option list to select the clearing bank branch. Double click on a branch code to select it
 - Instrument No: Enter the number on the instrument presented for clearing in this field. Double click on a value to select it
 - Routing No: Enter the routing number of the branch selected for clearing in this field
 - Clearing Product Code: Click the option list to choose a product code if the clearing is using an Oracle FLEXCUBE clearing product. Double click on a branch to select it
 - End Point: This field picks up the end point maintained in the clearing system
 - Sector Code: Click the option list to choose the clearing sector code. Double click on a sector code to select it
- External Account
 - Clearing Bank Code: Click the option list to choose the external bank code as per clearing maintenance
 - Clearing Branch Code: Click the option list to choose the external bank branch used for clearing
 - Ext Acc No: Enter the external account number in this field
 - Ext Acc Beneficiary Name: Enter the name of the beneficiary of the external account in this field
- GIRO
 - Auto/Manual GIRO – Select Auto GIRO for automatic direct debit or else select Manual
 - Bank/Plus GIRO – Select the GIRO clearing system used, which can be either Bank or Plus
 - GIRO Number – This is applicable only for corporate customers and not for individual customers. You have to enter the GIRO number
 - Payer Bank Name – Specify the name of the bank from which the amount is paid
 - Payer Branch - Specify the branch from which the amount is paid
 - Payer Account - Specify the account from which the amount is paid
 - Payer Bank Address - Specify the address of the bank from which the amount is paid
- Instrument / Cash / Teller
 - AC Branch: Click the option list to choose branch where the account is serviced. Double click on a branch to select it

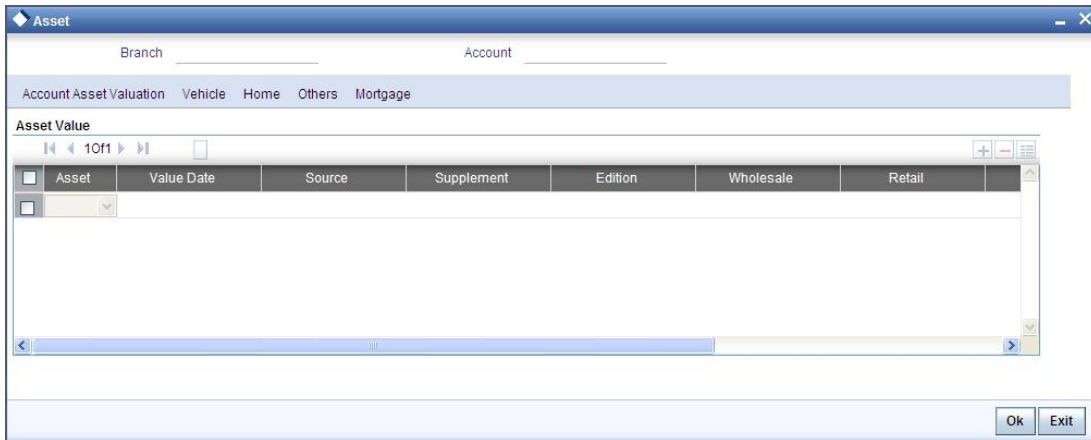
Product or Account: If the payment mode is Account, this field specifies the CASA / GL account to be debited. If the payment is through Instrument / Cash, it denotes the teller product to be used

5.2.15 Capturing Asset Details

You can capture the details corresponding to the collateral being provided for the current loan in the 'Assets' screen. To invoke this screen, click 'Assets' button in 'Account Details' tab of the 'Account Details' screen.

5.2.15.1 Account Asset Valuation Tab

You can capture valuation details of the asset in this tab.



Here, you can specify the following details related to your assets like vehicle, home, etc.

Assets

Select the type of asset from the drop-down list. The following values are provided for selection:

- Vehicle
- Home
- Others

Value Date

Specify the valuation date for the selected asset, or select the date by clicking the 'Calendar' button.

Source

Specify the source associated with the asset selected

Supplement

Specify the supplement of the valuation source used for the valuation

Edition

Specify edition of the valuation source used for the valuation

Wholesale

Specify the wholesale rate associated with the asset selected

Retail

Specify the retail rate associated with the asset selected

Usage

Specify usage level at the time of the valuation

Usage Value +

Specify the initial usage value

Total

Specify the total usage of the asset

5.2.15.2 Vehicle Tab

You can capture details regarding the asset of type 'vehicle' in this tab

The screenshot shows a software window titled "Asset" with a menu bar containing "Account Asset Valuation Vehicle Home Others Mortgage". The "Vehicle" tab is selected. The form contains the following fields:

- Branch
- Account
- Asset Class
- Type
- Sub Type
- Asset Status
- Asset Year
- Asset Make
- Asset Model
- Asset Body
- Identity Number
- Reg#
- Address1
- Address2
- Address3
- Address4

Buttons for "Ok" and "Exit" are located at the bottom right of the window.

You can specify the following common details associated with asset of type vehicle:

Class

Select the class associated with the asset selected, from the option list. The following options are provided:

- New
- Used

Status

Select the status of the asset selected, from the option list. The following options are provided:

- Active
- Inactive
- Inventory
- Undefined

Type

Specify the type of the selected asset here

Sub Type

Specify the subtype associated with the asset, if any

Year

Specify the year of association with the selected asset

Make

Specify the make of the selected asset. For vehicle, you can specify the manufacturing company name and for home you can specify the name of the builder or developer.

Model

Specify the model of the selected asset

Address

Specify the address associated with the asset

You need to specify the following details additional related to vehicle type of asset:

Body

Specify the body number associated with the vehicle

Id Number

Specify the unique identification number associated with the vehicle

Reg. Number

Specify the registration number of the vehicle

5.2.15.3 Home Tab

You can capture details regarding the asset of type Home in this tab

You can specify the following additional details for home type of asset:

Occupancy

Specify the number of people occupying the house

Width

Specify the width associated with the selected asset

Length

Specify the length associated with the selected asset

PO #

Specify the post office number of the location of the property

GEO

Specify the property GEO code (Geospatial Entity Object Code) for the asset

BNA

Specify the census tract/BNA code (Block Numbering Area) for the asset

MSA

Specify the metropolitan statistical area (MSA) code for the asset

Click 'Ok' to save the details.

5.2.15.4 Mortgage Tab

You can capture details regarding the asset of type Mortgage in this tab.

Here you can specify the following mortgage type asset:

Property Name

Specify the name of the mortgage property.

Collateral Category

Specify the category to which the collateral belongs.

Country

Specify the name of the country to which the mortgage property belongs.

Co-Owner

If the property is jointly held, specify the name of the co-owner of the property.

Property Age (in Years)

Specify the age of the property in terms of number of years.

Valuation

Specify the actual value of the mortgage property.

Offset Margin

Specify the offset margin of the mortgage property.

Lendable Margin

Specify the margin that should be allowed for lending.

Valuation Currency

Specify the currency in which the property has been valued. The option list displays all valid currencies maintained in the system. Choose the appropriate one.

Property Address

Specify the address details of the property.

5.2.15.5 Others Tab

You can capture other asset details here.

The screenshot shows a software window titled "Asset" with a close button (X) in the top right corner. Below the title bar, there are two input fields: "Branch" and "Account". Below these are four tabs: "Account Asset Valuation", "Vehicle", "Home", and "Others" (which is selected and highlighted in blue), and "Mortgage". The main area of the window contains several input fields arranged in three columns. The first column has "Asset Class" (with a dropdown arrow), "Type", "Sub Type", and "Asset Status" (with a dropdown arrow). The second column has "Asset Year", "Asset Make", "Asset Model", "Asset Body", "Identity Number", and "Reg#". The third column has "Address1", "Address2", "Address3", and "Address4", each with a small icon to its right. At the bottom right of the window are "Ok" and "Cancel" buttons.

Specify the following details:

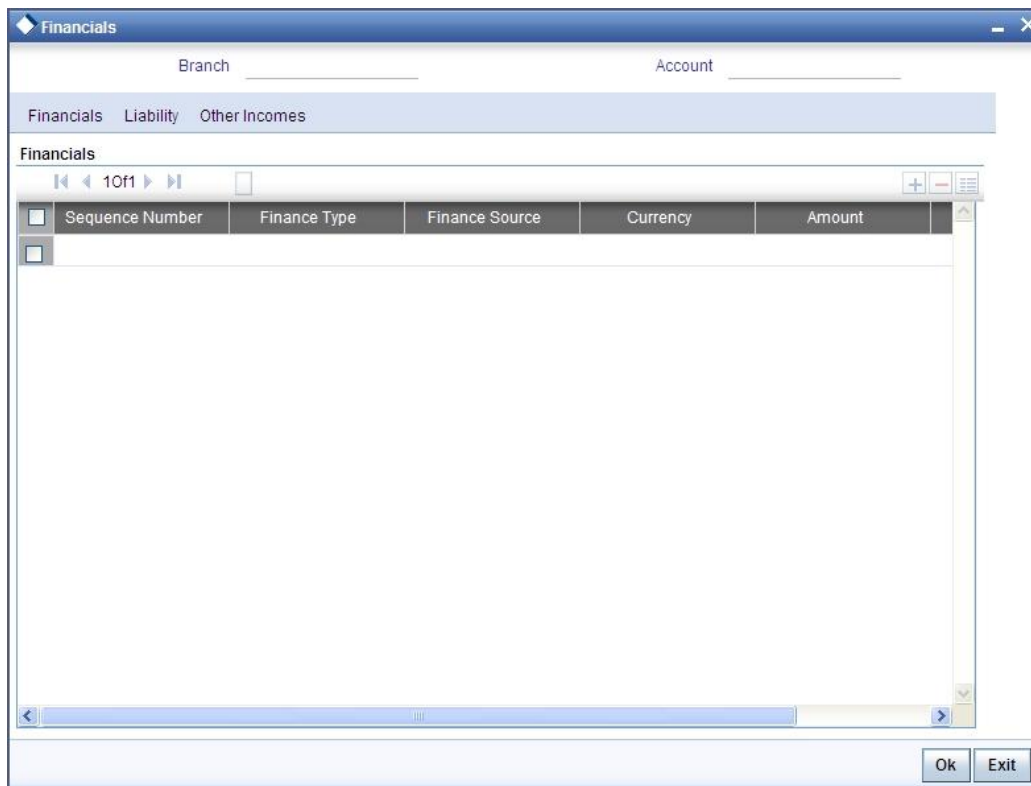
- Asset Class
- Type
- Sub Type
- Asset Status
- Asset Year
- Asset Make
- Asset Model
- Asset Body
- Identity Number
- Register Number
- Address

5.2.16 Capturing Financial Details

You can capture the income or liability details of the customer in the 'Financials' screen. To invoke this screen, click 'Financials' in 'Account Details' tab of the Account Details screen.

5.2.16.1 Financials Tab

You can specify the following details related to the customer's income here:



Sequence Number	Finance Type	Finance Source	Currency	Amount
-----------------	--------------	----------------	----------	--------

The following details are captured here:

Type

Select the type of the income from the option list provided

Source

Specify the source of the income

Currency

Select the currency associated with the income, from the option list provided

Amount

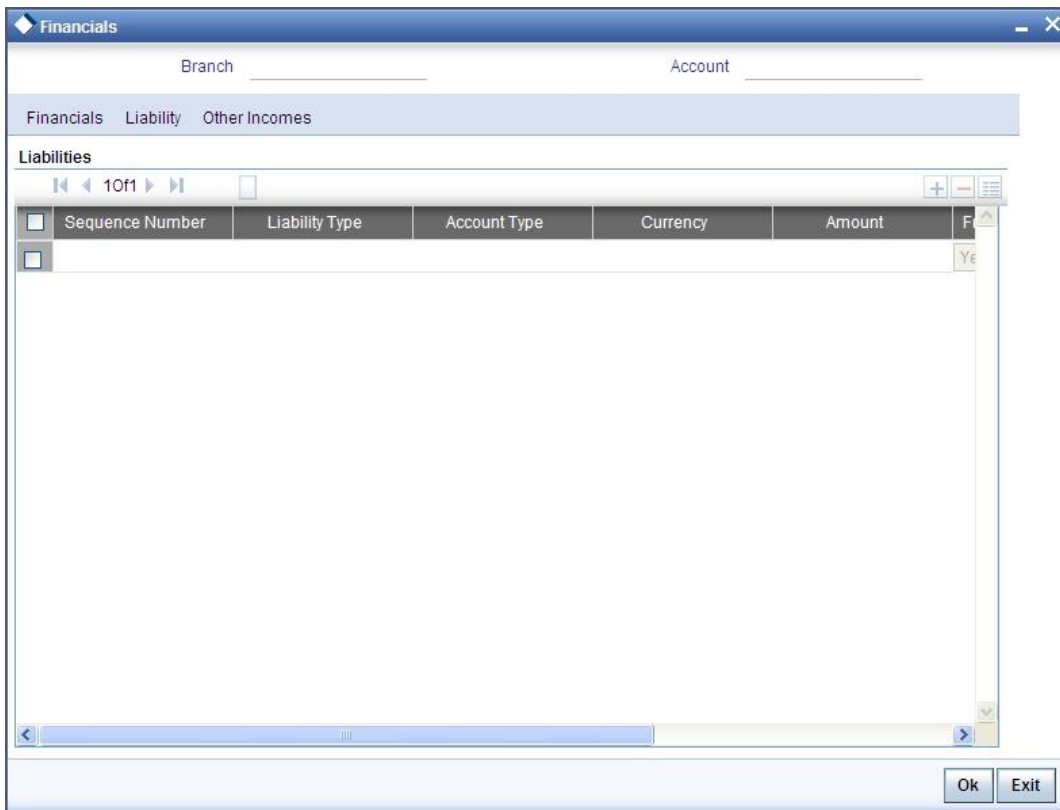
Specify the amount associated with the income

Comment

Specify any remarks or comments for the income

5.2.16.2 Liability Tab

Here you can specify the following details related to the customer's liability:



The following details are captured here:

Type

Select the type of the liability from the option list provided

Account Type

Specify the account type associated with the liability

Currency

Select the currency associated with the liability, from the option list provided

Amount

Specify the amount associated with the liability

Frequency

Select the frequency at which payments are made towards the liability. The following options are possible:

- Daily
- Weekly
- Monthly
- Quarterly
- Half Yearly
- Yearly

Balance

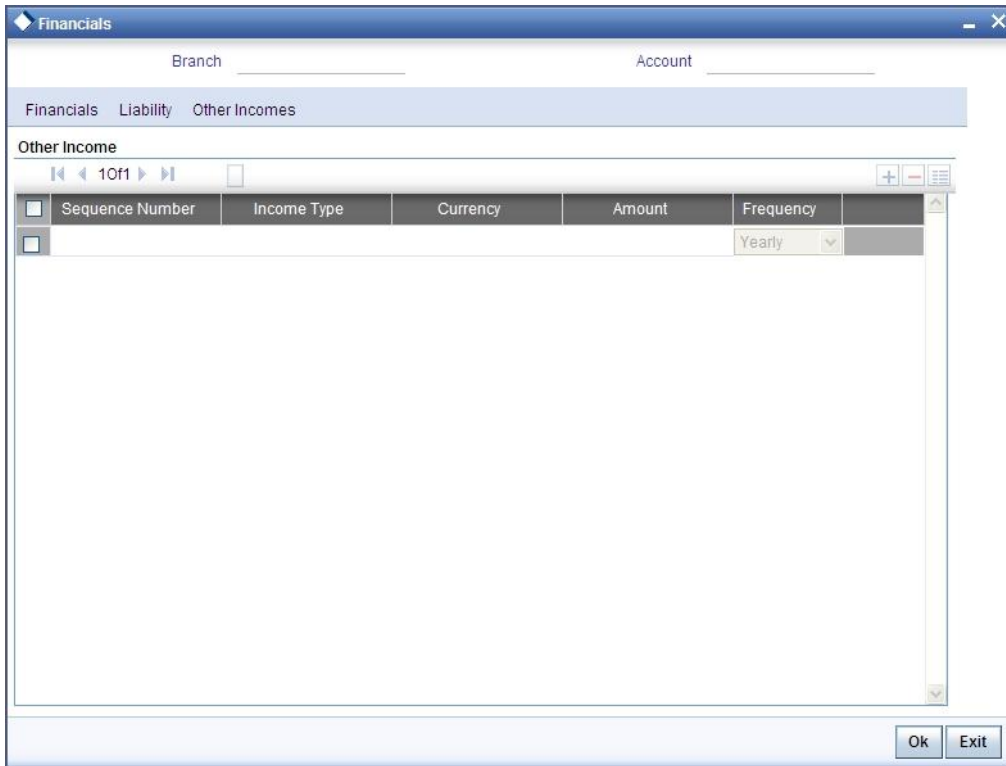
Specify the current amount outstanding

Comment

Specify any remarks or comments to be associated with the liability

5.2.16.3 Other Income Tab

You can also capture the details related to other sources of income, if exists



The following details are captured here:

Seq No

Specify the sequence number here

Type

Specify the type of income here. You can also select the income type from the adjoining option list.

Currency

Specify the currency of the income here. You can also select the currency from the adjoining option list.

Amount

Specify the amount of income here

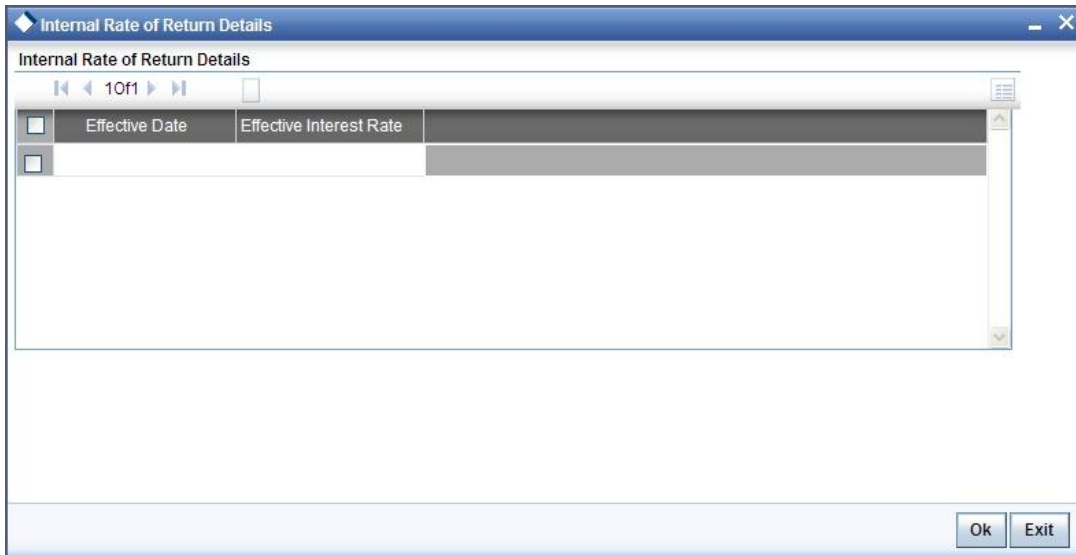
Frequency

Select the frequency of the income here from the drop-down list.

Click Ok to save the details.

5.2.17 Viewing Internal Rate of return Details

You can view the internal rate of return details in the 'Internal Rate of Return Details' screen. You can invoke this screen by clicking the 'Internal Rate of Return Details' button in the 'Account Details' screen.



5.2.18 Maintaining MIS Details

You can maintain MIS details in the 'MIS' screen. You can invoke this screen by clicking the 'MIS' button in the 'Account Details' screen.

The screenshot shows the 'MIS' screen with the following fields and sections:

- Contract Reference ***: _____
- MIS Group**: _____
- Link To Group**
- Input**
 - Link To Group**
 - Related Reference**
 - Related Account**
 - Related Account**: _____
 - Related Reference**: _____
 - MIS Head**: _____
 - Rate Code**: _____
 - Spread**: _____
- Rate At**
 - Rate Type**: _____
 - Pool Code**
 - Contract Level**
 - Interest Method**: _____
 - Reference Rate**: _____
 - Pool Code**: _____
 - Cost Code1**: _____
 - Cost Code2**: _____
 - Cost Code3**: _____
 - Cost Code4**: _____
 - Cost Code5**: _____
- Transaction MIS**
 - MIS Group: _____
 - Transaction MIS 1: _____
 - Transaction MIS 2: _____
 - Transaction MIS 3: _____
 - Transaction MIS 4: _____
 - Transaction MIS 5: _____
 - Transaction MIS 6: _____
 - Transaction MIS 7: _____
 - Transaction MIS 8: _____
 - Transaction MIS 9: _____
 - Transaction MIS 10: _____
- Composite MIS**
 - MIS Group: _____
 - Composite MIS 1: _____
 - Composite MIS 2: _____
 - Composite MIS 3: _____
 - Composite MIS 4: _____
 - Composite MIS 5: _____
 - Composite MIS 6: _____
 - Composite MIS 7: _____
 - Composite MIS 8: _____
 - Composite MIS 9: _____
 - Composite MIS 10: _____
- Fund MIS**
 - Fund MIS 1: _____
 - Fund MIS 2: _____
 - Fund MIS 3: _____
 - Fund MIS 4: _____
 - Fund MIS 5: _____
 - Fund MIS 6: _____
 - Fund MIS 7: _____
 - Fund MIS 8: _____
 - Fund MIS 9: _____
 - Fund MIS 10: _____
- Buttons**:

5.2.19 Viewing General Ledger Details

You can view the general ledger details in the 'GL Balance' screen. You can invoke this screen by clicking the 'General Ledger Query' button in the 'Account Details' screen.

The screenshot shows the 'GL Balance' application window. At the top, there are search criteria fields: Branch Code *, Account *, Alternate Account Number, Customer Id, Customer Name, Product Code, Product Category, Amount Financed, Currency, Value Date, and Maturity Date. Below these are two tables: 'Components' and 'GL Details'. The 'Components' table has columns for Component Name and Description. The 'GL Details' table has columns for GL Code, GL Type, Status Code, Balance, and LCY Balance. Both tables are currently empty. An 'Exit' button is located at the bottom right of the window.

Component Name	Description
----------------	-------------

GL Code	GL Type	Status Code	Balance	LCY Balance
---------	---------	-------------	---------	-------------

5.2.20 Viewing Installments Details

You can view the installment details in the 'Installment Query' screen. You can invoke this screen by clicking the 'Inventory' button in the 'Account Details' screen.

The screenshot shows the 'Installment Query' window with the following sections:

- Account Details:** Fields for Customer Id, Application Number, Branch Code *, Alternate Account Number, Product Code, Account *, Currency, User Defined Status, Amount Financed, Value Date, Amount Utilized, Maturity Date, Available Credit Limit, and Unbilled Utilization Amount.
- Installment Summary:** A table with columns: Schedule Number, Schedule Due Date, Currency, Total Amount Due, Minimum Amount Due, Pay By Date. It shows one row with a checkbox on the left.
- Installment Detail:** A table with columns: Component Name, Amount Due, Settlement Currency, Schedule Status, P. It shows one row with a checkbox on the left.

An 'Exit' button is located at the bottom right of the window.

On Click of a button, it displays the nominal value and denomination applied on each UDEs for each schedule. Specify the following details:

Branch code

Specify the branch code.

Account number

Specify the account number.

Component name

Specify the component name.

Rate Start date

Specify the rate start date.

Rate End date

Specify the rate end date.

No of days

Specify the number of days.

Nominal value

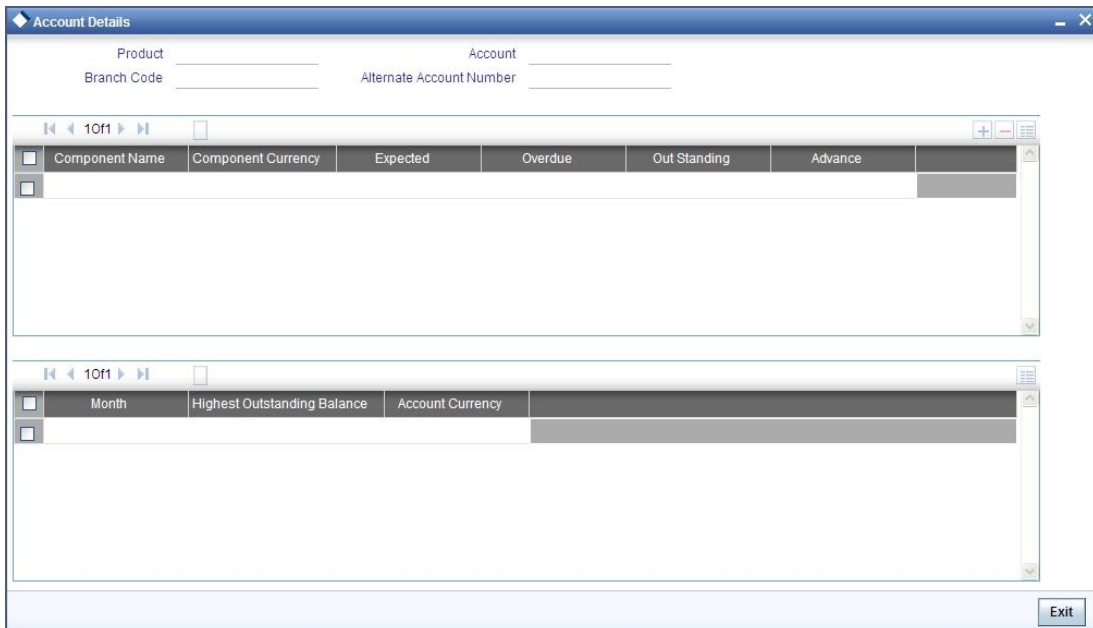
Specify the nominal value.

Denomination

Specify the denomination.

5.2.21 Viewing Account Status

You can view the current status of an account in the 'Account Details' screen. You can invoke this screen by clicking the 'Statistics' button in the 'Account Details' screen.



Once you select an Account Number, the system displays the following details pertaining to the current status of the account:

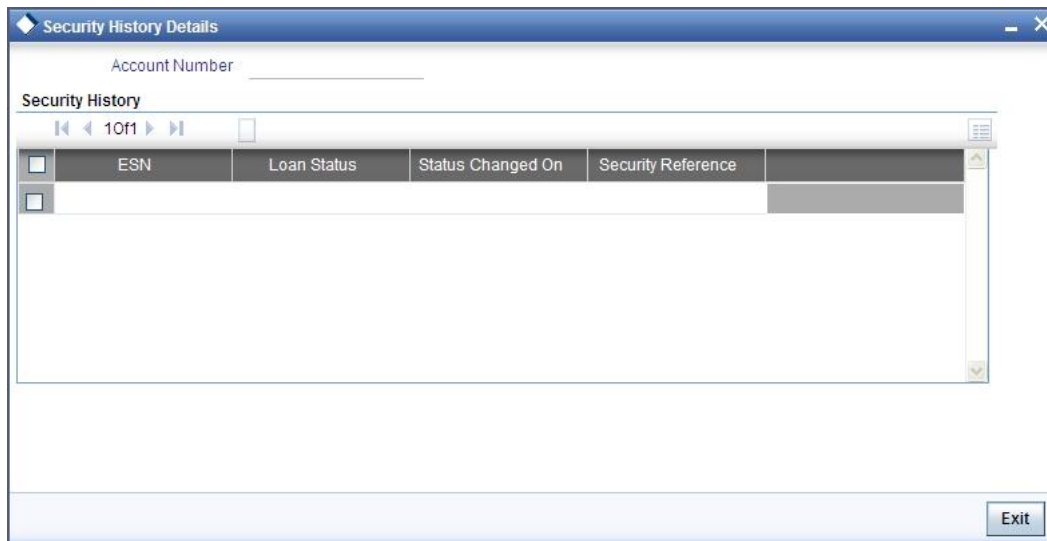
- Component Name

- Expected
- Overdue Amount
- Outstanding Principle
- Advance Amount
- Currency
- Number of overdue installments

The Account creation and any other change to an account is updated the audit trail of the record. In the audit trail, the Account status details are also displayed. An Account can be active or uninitiated. Once it is active, it can be reversed, deleted or liquidated based on the operations on it. This is displayed on the screen.

5.2.22 Viewing Security History Details

You can view the securitization details in the 'Security History Details' screen. You can invoke this screen by clicking 'Security Details' button in the 'Account Details' screen.



Here the system displays the securitization details such as Securitization Event, Status, Date and Security Reference Number on which the loan contract has been a part.

5.2.23 Maintaining SWIFT Message Details

You can capture the SWIFT related details in this screen. You can invoke this screen by clicking the 'SWIFT Message Details' button in the 'Account Details' screen.

The screenshot shows a software window titled "SWIFT Message Details". The window contains a form with the following sections and fields:

- Account** and **Branch Code** (text input fields)
- Beneficiary Institution**: 5 rows of text input fields.
- Sender To Receiver Information**: 6 rows of text input fields.
- Message Details**: Includes a checkbox for **Cover Required**.
- Payment Details**: 4 rows of text input fields.
- Charge Details**: Includes **Account Currency**, **Our Correspondent**, **Receiver**, **Transfer Type** (dropdown menu), and radio buttons for **Charges** and **Remitter1**.
- Ordering Institution**: 5 rows of text input fields.
- Ordering Customer**: 5 rows of text input fields.
- Intermediary Reimbursement Institution**: 5 rows of text input fields.
- Ultimate Beneficiary**: 5 rows of text input fields.
- Beneficiary Institution for Cover**: 5 rows of text input fields.
- Receiver Correspondence**: 5 rows of text input fields.
- Account With Institution**: 5 rows of text input fields.
- Intermediary**: 5 rows of text input fields.

At the bottom right of the window, there are **OK** and **Exit** buttons.

5.2.24 Repayment Holiday for Amortized Loans

A loan has two formulae for the slots of simple and the amortized. Simple and amortized formulae can occupy any position in schedules definition.

During principal repayment holiday period, interest is calculated on the simple interest formula specified. The customer needs to repay only the interest component. Principal is amortized for the remaining period or tenor of the loan. Principal schedule will not be present during repayment holiday period.

The system treats instances of overdue and default as per the liquidation order maintained.

Example

Consider the following details:

Loan Amount	24000
Tenor of Loan	24 months
Rate of Interest	20%
Simple Calculation Period	06
Amortized Calculation Period	18
Loan start Date	01-Sep-2008
Loan End Date	01-Sep-2010
Interest Calculation Amortized	From 01-Sep-2008 to 01-Sep-2009
Interest Calculation Simple	From 01-Sep-2009 to 01-Mar-2010
Interest Calculation Amortized	From 01-Mar-2010 to 01-Sep-2010

SI No	Instalment Schedule Date	Loan Outstanding Amount	Instalment Amount	Repayment	
				Principal	Interest
1	10/1/2008	9482.13	601.2	517.87	83.33
2	11/1/2008	8962.58	601.2	519.55	81.65
3	12/1/2008	8436.07	601.2	526.51	74.69
4	1/1/2009	7907.51	601.2	528.56	72.64
5	2/1/2009	7374.4	601.2	533.11	68.09
6	3/1/2009	6830.56	601.2	543.84	57.36
7	4/1/2009	6288.18	601.2	542.38	58.82
8	5/1/2009	5739.38	601.2	548.8	52.4
9	6/1/2009	5187.6	601.2	551.78	49.42
10	7/1/2009	4629.63	601.2	557.97	43.23

SI No	Instalment Schedule Date	Loan Outstanding Amount	Instalment Amount	Repayment	
				Principal	Interest
11	8/1/2009	4068.3	601.2	<i>561.33</i>	<i>39.87</i>
12	9/1/2009	3502.13	601.2	<i>566.17</i>	<i>35.03</i>
13	10/1/2009	3502.13	29.18		29.18
14	11/1/2009	3502.13	30.16		30.16
15	12/1/2009	3502.13	29.18		29.18
16	1/1/2010	3502.13	30.16		30.16
17	2/1/2010	3502.13	30.16		30.16
18	3/1/2010	3502.13	27.24		27.24
19	4/1/2010	2931.09	601.2	<i>571.04</i>	<i>30.16</i>
20	5/1/2010	2354.32	601.2	<i>576.77</i>	<i>24.43</i>
21	6/1/2010	1773.39	601.2	<i>580.93</i>	<i>20.27</i>
22	7/1/2010	1186.97	601.2	<i>586.42</i>	<i>14.78</i>
23	8/1/2010	595.99	601.2	<i>590.98</i>	<i>10.22</i>
24	9/1/2010	0	601.12	<i>595.99</i>	<i>5.13</i>

Repayment amounts marked in '*italics*' are derived using amortized formula. The remaining amounts are derived using simple formula.

Simple interest formula cannot be used for the last payment row. The bullet schedule for interest cannot be based on the simple interest formula. Hence the gap between the principal schedules – 01-Sep-2009 and 01-Apr-2010 – in the above example.

Now, in case of principal moratorium for a simple loan, there may be no principal schedules present for a given period of Interest. The system calculates simple interest during principal moratorium based on the principal outstanding amount at that time.

Example

Consider the following details:

Loan Amount	24000
Tenor of Loan	24 months

Rate of Interest	20%
Loan Start Date	01-Sep-2008
Loan End Date	01-Sep-2010
Principal Moratorium Period	From 01-Sep-2009 to 01-Apr-2010

SI No.	Instalment	Loan	Instalment	Repayment	
	Schedule Date	Outstanding Amount	Amount	Principal	Interest
1	10/1/2008	22666.67	1733.33	1333.33	400
2	11/1/2008	21333.34	1723.7	1333.33	390.37
3	12/1/2008	20000.01	1688.89	1333.33	355.56
4	1/1/2009	18666.68	1677.77	1333.33	344.44
5	2/1/2009	17333.35	1654.81	1333.33	321.48
6	3/1/2009	16000.02	1602.96	1333.33	269.63
7	4/1/2009	14666.69	1608.89	1333.33	275.56
8	5/1/2009	13333.36	1577.77	1333.33	244.44
9	6/1/2009	12000.03	1562.96	1333.33	229.63
10	7/1/2009	10666.7	1533.33	1333.33	200
11	8/1/2009	9333.37	1517.03	1333.33	183.7
12	9/1/2009	8000.04	1494.07	1333.33	160.74
13	10/1/2009	8000.04	133.33	0	133.33
14	11/1/2009	8000.04	137.78	0	137.78
15	12/1/2009	8000.04	133.33	0	133.33
16	1/1/2010	8000.04	137.78	0	137.78
17	2/1/2010	8000.04	137.78	0	137.78
18	3/1/2010	8000.04	124.45	0	124.45
19	4/1/2010	6666.7	1471.12	1333.34	137.78

SI No.	Instalment	Loan	Instalment	Repayment	
	Schedule Date	Outstanding Amount	Amount	Principal	Interest
20	5/1/2010	5333.36	1444.45	1333.34	111.11
21	6/1/2010	4000.02	1425.19	1333.34	91.85
22	7/1/2010	2666.68	1400.01	1333.34	66.67
23	8/1/2010	1333.34	1379.27	1333.34	45.93
24	9/1/2010	0	1356.3	1333.34	22.96

For further details on holiday period maintenance, please refer to the section 'Maintaining Holiday Periods' in chapter 'Maintenances and Operations' of this user manual.

5.2.25 Viewing Liquidating Loans

You can view all the loans that have been attached to this loan i.e., the loans which will be liquidated on the disbursement using the first installment of the current loan in the 'Liquidate Loans Details' screen. You can access this screen by clicking the 'Liquidate Loans' button in the 'Manual Disbursement' screen.

To liquidate the attached loans, click 'Save' in the 'Manual Disbursement' screen. The system compares the total outstanding loan amount to be liquidated (sum of all loan amounts chosen) and the disbursement amount of the current loan:

- If the disbursement amount is greater than the total liquidated amount, the system liquidates the attached loans and credits the excess in the settlement mode chosen by the customer in the 'Manual Disbursement' screen.
- If the disbursement amount is less than or equal to the total liquidated amount, the system displays an error message "Disbursed Amount is less than/equal to Liquidation amount" and stops the disbursement.

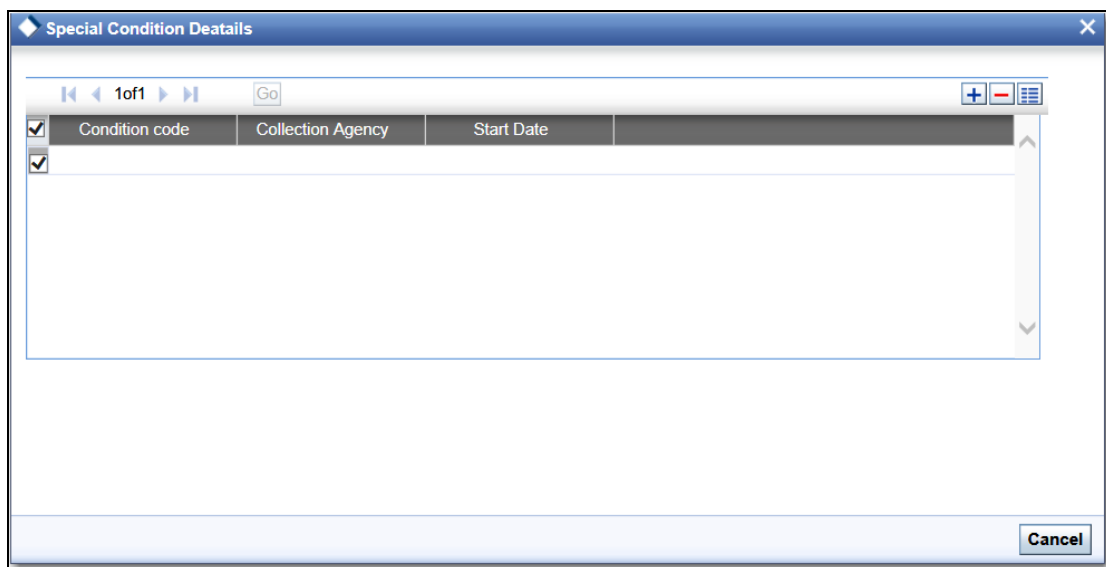


Note the following:

- The disbursed amount will be determined after deducting any tax or charges that may be applicable.
- You need to maintain Loan Account (LAC) as a settlement mode in the 'Multimode Settlement' screen. This is used by the system internally for accounting entries.
- During manual disbursement, you can modify the liquidate loan details captured during account creation and enter new details.
- If there is an increase in the principal, you can capture the liquidate loan details during value dated amendment.
- If the checkbox 'Refinance' is checked in the 'Customer Agreements Maintenance' screen, the old loan account details of the customer belonging to the same agreement will get defaulted in this screen.

5.2.26 Viewing Special Condition Details

You can view the special condition details using the 'Special Condition Details' screen. You can invoke this screen by clicking the 'Special Conditions' button in the 'Account Details' screen.



The system displays the following details:

- Condition Code
- Collection Agency
- Start Date

5.2.27 Maintaining Financial Assistance Details

You can capture the financial assistance details in the 'Financial Assistance Details' screen. Click the 'Financial Assistance Details' button to invoke the following screen.

UDE Id	UDE Value	Rate Code	Code usage	Rate Template
--------	-----------	-----------	------------	---------------

It is not mandatory to capture these details during Loan creation in hold status.

Specify the following details:

Funding Amount

Specify the portion of the Asset Loan that should be used to create Liability Loan. This cannot be more than the amount financed of Asset Loan.

Funding Percentage

Specify the percentage loan amount that is being funded by the funding entity. This will be the loan amount for the liability loan. The value in this field cannot be more than 100.

Once you specify the value in the 'Funding Amount' field, on tab-out, the system will update value in the 'Funding Percentage' field. Similarly, after specifying the value in the 'Funding Percentage' field, on tab-out, the system will update the value in the 'Funding Amount' field. The system validates that the 'Funding Percentage' and 'Funding Amount' are in sync.

Approval Number

Specify the approval number. Apart from storing the Approval Number given by funding entity in Asset Loan, the same will be stored as 'Alternate Account Number' in Liability Loan account.

The system displays the following details:

- Amount Financed
- Currency

Rate Details

Specify the following rate details:

UDE ID

Specify the UDE ID associated with the liability product. The adjoining option list displays all the valid UDE IDs maintained in the system. You can choose the appropriate one.

UDE Value

Specify the value for the corresponding UDE ID.

Rate Code

Specify the rate code. The adjoining option list displays all the valid rate codes maintained in the system. You can choose the appropriate one.

Code Usage

Select the code usage from the adjoining drop-down list. The list displays the following values:

- Periodic
- Automatic

Rate Template

Specify the rate template. The system displays all the valid rate templates maintained in the system. You can choose the appropriate one.



Financial Assistance Details is mandatory only on save of an asset loan, wherein 'Liability Product' is configured. Financial Assistance Details should not be provided during creation of an asset loan, wherein 'Liability Product' is not configured.

UDE value, No. of Installments Fixed Cut-off Date and Frequency is defaulted from Asset loan and all the remaining fields are defaulted from liability loan product maintained for the asset loan product.

Liability Loan Creation:

- During creation of a loan account (asset), if "Financial Assistance Details" is input, "Liability Product" is maintained in asset loan product and if "Funding Percentage" is not zero, then system triggers automatic creation of a liability loan.
- "Financial Assistance Details" is not mandatory for 'Hold' operation.

- “Liability Product” and “Funding Entity” configured in product maintenance of asset loan is used for the creation liability loan.
- CIF of the liability loan is mapped to the “Code” of the funding entity maintenance (LMDTYPE).
- Loan amount and interest details are read from “Financial Assistance Details” of asset loan. This is done in the following manner
 - Loan amount or amount financed of liability will X% of asset loan, where X is “Funding Percentage” provided in “Financial Assistance Details” of asset loan.
 - For UDEs that are associated with a rate template, calculation of resolved value (E.A) is driven by “Spread Treatment” preference maintained for the liability product.

Liquidation mode of liability loan is inherited from the liability loan product.

- Validation is introduced to restrict linkage of limits and collaterals -for liability loans.
- Parameters inherited to liability loan from asset loan
 - Number of installments
 - Unit
 - Frequency
 - Due date on

Payment schedules of liability loan is built as per the holiday preferences of the Liability Product. If Funding Percentage is provided as Zero, then liability loan would not be created.

Asset Loan without Liability Loan:

Liability loans are created when “Financial Assistance Details” is provided and “Funding Percentage” is not zero, during loan account creation. “Funding Percentage” will be zero for loans that are not assisted by a third party financial entity. Liability loan will not be created for the same

Changes in Disbursement Operation:

If a loan is funded by a third party, then during disbursement of such loan system will automatically trigger disbursement event in the linked liability loan. Similarly, reversal of disbursement in asset loan will automatically trigger reversal of disbursement event in the linked liability loan.

Amendments in Asset Loan:

Amendment after Activation: Amendments done in asset loan has no impact on the linked liability loan.

Reversal of Asset Loan:

If a loan is funded by a third party, then during reversal of such loan system automatically triggers reversal of linked liability loan.

Restricted Events on Liability Loan:

The following user initiated events are not permitted on liability loan

- Disbursement
- Reversal of disbursement
- Reversal of contract
- Manual liquidation through channel other than Flexcube

Additional Information:

- Loans are identified as bearing or discounted based on the formula type of main interest component.
- Settlement mode details are captured in the “Payment Details” of each component.
- Association of collateral is done in Linkage Details. Linkage type is “Collateral” and collateral coverage is captured in “Link Percentage”.

5.2.28 Maintaining Disbursement Settlement Mode Details

You can capture the disbursement settlement mode details in the ‘Disbursement Settlement Modes’ screen. Click the ‘Disbursement Mode Details’ button to invoke the following screen.

The screenshot shows a software window titled "Disbursement Settlement Modes". At the top, there are two input fields: "Branch Code" and "Account Number". Below these is a section titled "Settlement Details" with a "1 of 1" indicator. The form is divided into two columns of fields. The left column includes: "Settlement Mode" (a dropdown menu), "Reference Number", "Internal Reference", "Settlement Currency", "Settlement Amount", "Settlement Branch", "Settlement Account", "CASA Settlement Account", "Product Category", "External Account Name", "External Account Number", "Network", "External Account Type" (a dropdown menu), "Clearing Bank", "Clearing Through Branch", and "Instrument Number". The right column includes: "Beneficiary Name", "Beneficiary Value", "Commission Amount", "UID Type", "UID Value", two checkboxes labeled "Exempt GMF" and "Exempt Commission", "GMF Amount", "Calculated Commission Amount", and "GMF and IVA Amount". At the bottom right of the window are "Ok" and "Exit" buttons.

The system displays the following details:

- Branch Code

- Account Number
- Settlement Details

Specify the following settlement details:

Settlement Mode

Select the settlement mode from the adjoining drop-down list. The list displays the following values:

- CASA
- External Account
- Instrument
- Cash/Teller
- Credit Note

Reference Number

Specify the reference number.

Internal Reference

Specify the internal reference number.

Settlement Currency

Specify the currency in which the disbursement will be made through the selected mode. The adjoining option list displays all the valid currency codes maintained in the system. You can choose the appropriate one.

Settlement Amount

Specify the amount of disbursement to be settled through the mode. For the last disbursement this field should have null value. The system will calculate the value with recursive calculation. If the last disbursement mode amount is zero or negative, the system will reject the disbursement with appropriate error codes for zero and negative.

Settlement Branch

Specify the settlement branch. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Settlement Account

Specify the beneficiary account number for 'CASA' and 'Instrument' modes. The adjoining option list displays all the valid account numbers maintained in the system. You can choose the appropriate one.

CASA Settlement Account

Specify the settlement account of the customer. The adjoining option list displays all the valid account numbers maintained in the system. You can choose the appropriate one.

Product Category

Specify the product category for 'External Account' mode. The adjoining option list displays all the valid product categories maintained in the system. You can choose the appropriate one.

External Account

Specify the name of the account number for 'External Account' mode.

External Account Number

Specify the account number for 'External Account' mode.

Network

Specify the clearing network when settlement mode is external account. The adjoining option list displays all the valid networks maintained in the system. You can choose the appropriate one.

External Account Type

Select the external account type from the adjoining drop-down list. The list displays the following values:

- Savings
- Current

Clearing Bank

Specify the clearing bank code for 'Internal' or 'External Account' settlement mode. The adjoining option list displays all the valid clearing branch codes maintained in the system. You can choose the appropriate one.

Clearing through Branch

Specify the clearing branch code for 'Clearing' or 'External Account' settlement mode. The adjoining option list displays all the valid clearing branch codes maintained in the system. You can choose the appropriate one.

Instrument Number

Specify the instrument number. This is applicable if the settlement mode is 'Instrument'.

Beneficiary Name

Specify the beneficiary name. The value needs to be specified only if the settlement mode is 'Instrument/External Account'.

Beneficiary Value

Specify the beneficiary value. The value needs to be specified only if the settlement mode is 'Instrument/External Account'.

Commission Amount

Specify the commission amount. The same amount is defaulted as Charge 1 in the clearing contract in the liability system. The liability system will calculate and pass IVA and GMF amount as configured for the Charge1. This field will be enabled in case disbursement mode is selected as 'Instrument/Clearing'.

UID Type

Specify the UID type of the customer. The adjoining option list displays all the valid UID types maintained in the system. You can choose the appropriate one. The value needs to be specified only if the settlement mode is 'Instrument/External Account'.

UID Value

Specify the UID value of the customer. The value needs to be specified only if the settlement mode is 'Instrument/External Account'.

Exempt GMF


Check this box to indicate the GMF applicable on disbursement amount is exempted.

Exempt Commission

Check this box to indicate the commission applicable on disbursement amount is exempted.

The system displays the following details:

- GMF Amount
- Calculated Commission Amount
- GMF and IVA Amount

 The fields related to 'GMF Amount', 'Calculated Commission Amount' and 'GMF and IVA Amount' are provided considering expected requirement in future. Currently, these fields will fetch '0' as value.

The accounting entries for DSBR event based on the settlement modes:

Settlement Mode	Debit/Credit	Accounting Role	Amount Tag
Loan Account	Debit	CR_SETTLE_BRIDGE	GMF/IVA
	Credit	GMF GL	GMF/IVA

Installment	Debit	ADHOC BRIDGE	GMF/IVA
	Credit	GMF_GL	GMF/IVA
CASA	Debit	11.3 SETTLE_BRIDGE	GMF/IVA
	Credit	GMF GL	GMF/IVA

5.2.29 Calculating the Payment Schedule for the Loans

During contract creation, the system will calculate the payment schedule for the loans based on the 'Minimum Days for First Installment' field maintained in the Product level.

For Loans without Customer Agreement,

- When 'Minimum Days for First Installment' is greater than the number of days between the disbursement value date and the nearest due date, the system will calculate the nearest due date which satisfies 'Minimum Days for First Installment' value. This will be considered as the due date for the first payment schedule. Based on schedule frequency, system will calculate schedule start date of the first payment schedule calculated backward from the first installment due date.
- If the schedule start date of the first payment schedule is greater than the disbursement value date, then the system will create a moratorium interest schedule for the period between disbursement value date and the day before the schedule start date of the first payment schedule. The first payment schedule will have interest due from the first schedule as well as interest from the moratorium schedule.
- When 'Minimum Days for First Installment' is zero, then the system will have payment schedule starting from disbursement value date and due date will be calculated based on 'Due Date On' value or disbursement value date when 'Due Date On' is not specified.

For Loans with a Customer Agreement,

- When 'Minimum Days for First Installment' is greater than the number of days between disbursement value date and the nearest due date and either 'Moratorium Required' checkbox is unchecked or product associated is a simple interest product (Variable Installment Product), the system will calculate the nearest due date which satisfies 'Minimum Days for First Installment' value. This will be considered as the due date for the first payment schedule. Based on schedule frequency, system will calculate schedule start date of the first payment schedule calculated backward from the first installment due date.
- If the schedule start date of the first payment schedule is greater than the disbursement value date, then the system will create a moratorium interest schedule for the period between disbursement value date and the day before the schedule start date of the first payment schedule. The first payment schedule will have interest due from the first schedule as well as interest from the moratorium schedule.
- When 'Moratorium Required' is checked and product associated is an EMI product (Constant Installment Product), the system will ignore the 'Minimum Days for First Installment' value and creates a moratorium interest schedule for the period between disbursement value date and the day before the nearest due date which satisfies 'Minimum Moratorium Days' value. This moratorium schedule will be marked for capitalization.

- When the 'Minimum Days for First Installment' is zero and 'Moratorium Required' is unchecked, the system will have payment schedule starting from disbursement value date and due date will be decided based on the value of 'Due Date On' or disbursement value date when 'Due Date On' is not specified.

If the frequencies are different for the components, then the system will calculate the first schedule due date for the minimum frequency component.

5.3 **Loan Capitalization**

Due to the combination of the parameters – Ignore Holiday and Minimum days for first installment, the system calculates due date of the first payment schedule which might result in an irregular first schedule.

For the purpose of capitalization, loans are categorized into,

Special Libranza Loans

- For special Libranza, the check box 'Capitalize' at the agreement level will always be checked.
- The capitalization portion of the First irregular schedule will be capitalized based on the 'Capitalize' checkbox at the agreement level.
- On loan creation/DSBR, the capitalization schedule will be built for the capitalization days, as per the 'Convenio' and the EMI value will be calculated considering the capitalized principal to build the payment schedules.
- On the due date of capitalization schedule, accounting related to capitalization event will be fired.
- This EMI will not change during the life cycle of the loan.

Normal Loans

Case 1: Interest component of first irregular schedule is lesser than EMI (Capitalize checkbox at the product level may be checked or unchecked)

- First schedule is with more number of interest days, and interest due for the first schedule is high.
- All schedules have the same EMI.
- First schedule has value for PRINCIPAL.

Case 2: Interest component of first irregular schedule is more than EMI and the Capitalize' checkbox at the product level is checked.

- The capitalization portion of the First irregular schedule will be capitalized based on the 'Capitalize' checkbox at the agreement level.

- On loan creation/DSBR, the capitalization schedule will be built for the capitalization days, as per the 'Convenio' and the EMI value will be calculated considering the capitalized principal to build the payment schedules.
- On the due date of capitalization schedule, accounting related to capitalization event will be fired.
- All schedules will have same EMI.

Case 3: Interest component of first irregular schedule is more than EMI and the Capitalize' checkbox at the product level is not checked.

- The system will split the regular schedule in order to add one unit to the first irregular schedule to achieve uniform EMI across future schedules. First irregular schedule will have only interest component due.
- A EMI will be calculated for the remaining schedules.



Note the following:

- On payment during the capitalization period, the system will recalculate EMI and check whether there is a need for capitalization for the loans. Capitalization will be done for Libranza Special Loans in any case.
- For Libranza Special, Libranza Normal and Staff loans, the EMI value calculated at the time of DSBR will not change in the life cycle of the loan after the capitalization period ends.
- During rate revision and USURA control, EMI will not change for any kind of the loan.

5.4 Insurance Schedules

Once the customer has opted for insurance, the system builds the schedules based on default schedule from the product definition when schedule are not availed during loan creation.

An EOD batch verifies the overdue days of insurance components against the value maintained in the field 'Insurance Termination Days'. If overdue days exceed the parameters, the system will process a VAMI to change the UDE COMPONENT_NAME_ACTV to '0' effective from the application date. This ensures the future insurance premium schedules are 0.

AN EOD batch routine builds progressive schedules for insurance component for which the box 'Continue Post Maturity Until Write-off' is checked. Credit accelerated loans will also be under consideration for progressive schedule building, if this box is checked. Such progressive schedules are built only for the life insurance component defined with periodicity monthly until the account status is 'Write-Off'.

For Unemployment Insurances, the system sets the UDE, COMPONENT_NAME_ACTV to '0' as effective on last paid schedule. This in turn reverses all the accruals and calculates the premium as '0'.



The system reverses the accrued unemployment insurance, excluding those schedules that are partially paid.

For all insurance component following event will be handled as below

- VAMI – if there is any value dated amendments yielding to change in structure of schedules of an insurance component, the system will process a recalculation of insurance component. On recalculation, based on SDEs availed, regular and irregular schedules are identified and calculations are formulated accordingly.
- ROLLOVER – The system restructures the schedule in which the rollover is being processed. The restructured schedule has due date as on rollover date. The system processes recalculation and accrual of this insurance component, wherein the accrual will handle the adjustments.

5.4.1 **Life Insurance**

For automatic credit acceleration, you need to maintain a user defined event in the 'User Defined Event' screen. In the Event Trigger sub-screen (invoked by clicking the 'Default' button) you need to select the option 'Automatic'. In the 'Derivation Rule' sub-screen (invoked by clicking the 'Event Processing' button), you should define a rule based on overdue days. This caters the automatic credit acceleration based on overdue days for commercial and retail loans exclusively.

This user defined event is added to the product where automatic credit acceleration is needed. A policy with credit acceleration is attached to this user defined event at the product level. The EOD batch 'UDBATEVT' executes the rules and triggers the user defined event, which in turn will process the credit acceleration for the loan.

Similarly, for manual credit acceleration, you need to select the option 'Manual' in the 'User Defined Event' screen and this user defined event is added to the product where manual credit acceleration is needed. On manually triggering the user defined event through the 'CL User Defined Events Triggering' screen, the system will process the attached credit acceleration policy.

If the field 'Continue Post Maturity until Write-Off' is checked at the product level for the life insurance component, the system will accelerate all future schedules excluding the schedule in which the credit acceleration is being performed. In case of Discounted Interest, on the credit accelerated date the system has to apply the interest for the remaining number of days towards the adjustment of the principal component in the loan.

5.4.1.1 **Bearing**

You need to define the following UDE for the life insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for life insurance is 'LIFE_INSR', the UDE LIFE_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for life insurance and '0'</p>

	indicating the customer has not opted for life insurance.
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The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
REGULAR_SCH	This SDE will return '1' if the schedule under process is regular schedule, else '0'. Regular schedule are those schedules wherein start date and due date of the schedule are in synchrony with frequency, holiday movements and considering the fixed schedule due dates with exception of 29, 30, 31.
DAYS_IN_SCH	This SDE returns the number of days for the irregular schedules. The system checks the end date of schedule against 'Due Date On'. if not the same; system will consider the due date as the due date on field for the schedule and the system will calculate the days.
FREQ_DAYS	<p>This SDE returns the number of days based on the frequency configured for the component</p> <p>Monthly -30</p> <p>Quarterly -60</p> <p>Half yearly-180</p> <p>Yearly-360</p>

If the box 'Accrue on Start Date' is checked, the system will start the accruals on the start date.

For loans with Special Libranza, a component for life insurance and un-employment insurance with formula type 'Discounted' must be added to the product. A schedule will be built from disbursement date to first schedule start date of interest component, for discounted life insurance and un-employment insurance component. These insurance premiums will be discounted at the time of disbursement.

5.4.1.2 Discounted

You need to define the following UDE for the life insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for life insurance is 'DISC_LIFE_INSR', the UDE DISC_LIFE_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for life insurance and '0' indicating the customer has not opted for life insurance.</p>

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
PRINCIPAL_EXP_OVD	This SDE returns the Principal Expected and the Overdue as on calculation date.
HAD_DISC_LIFINS	This SDE will return a value '1' if discounted life insurance exists for regular schedule in life cycle of the loan and there are no future principal schedules, else '0'.

If the box 'Accrue on Start Date' is checked at the contract level, the system will start the accruals on the start date.

Annual Discounted Life Insurance has schedules build from the value date without considering the irregular schedule based on an annual periodicity. When the Annual Discounted Life Insurance date and maturity date falls on the same month, the system will calculate the insurance premium for the differential days and will be scheduled. A batch processes recalculation of annually discounted life insurance on due dates.

During amendment of loans with annually discounted life insurance/national collateral fund, the respective future schedules are built as on VAMI effective value dates. If current schedule is an irregular schedule and an extension of tenor is initiated, the system will build a schedule from schedule end date to annuity and future schedules accordingly.

5.4.2 Vehicle/Machinery Insurance

You need to define the following UDE for the vehicle insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for vehicle insurance is 'VEHICLE_INSR', the UDE VEHICLE_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for vehicle insurance and '0' indicating the customer has not opted for vehicle insurance.</p>

If the box 'Accrue on Start Date' is checked at the contract level, the system will start the accruals on the start date.

There will be no automatic processing of transfer of insurance. You must ensure the loan is of similar tenor, same schedule structure, having same insurer. If vehicle insurance premium transfer is from Loan1 to Loan2, you must set the insurance premium UDE for Loan1 to 0 effective on immediate schedule due date and add this premium value to insurance premium UDE of Loan2 effective from immediate schedule due date.

5.4.3 Unemployment Insurance

The amount maintained in the parameter 'UNEMPLOYMENT_INSR_CAP' (in the back-end table CSTB_PARAM) is considered in local currency. During account creation/amendment, the system verifies the calculated unemployment insurance premium basis against the parameter UNEMPLOYMENT_INSR_CAP.

If the calculated unemployment insurance premium basis exceeds the parameter, the un-employment insurance amount will be calculated as zero and system will display an override message on account creation.



Unemployment insurance is availed only for individual customer on retail loan.

5.4.3.1 Bearing

You need to define the following UDE for the unemployment insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for unemployment insurance is 'UNEMP_INSR', the UDE UNEMP_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for unemployment insurance and '0' indicating the customer has not opted for unemployment insurance.</p>

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
IMMEDIATE_SCHEDULE_DUE	<p>This SDE returns the sum of EMI (If capitalization of interest is opted, EMI will reflect on capitalization) and other periodic components (on 30 day basis for other periodic components) excluding the unemployment insurances of that immediate schedule where principal component is defined and greater than '0'. The schedule under consideration is that schedule falling due after the latest effective date of UDE COMPONENT_NAME_ACTV where value is set to '1'.</p>
UNEMP_INSR_PRM	<p>This SDE returns the unemployment insurance calculated for the first time.</p>

If the box 'Accrue on Start Date' is checked at the contract level, the system will start the accruals on the start date.

If the box 'Payment by Unemployment Insurer' is checked in the 'CL Payments' screen, the system will recognize the payment has been originated from Unemployment Insurer. The EOD processes for exclusion of insurance excludes loans which has at least one such payment originating from Unemployment Insurer.

5.4.3.2 Discounted – Financed

You need to define the following UDE for the unemployment insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for unemployment insurance is 'UNEMP_INSR', the UDE UNEMP_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for unemployment insurance and '0' indicating the customer has not opted for unemployment insurance.</p>

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
IMMEDIATE_SCHEDULE_DUE	<p>This SDE returns the sum of EMI (If capitalization of interest is opted, EMI will reflect on capitalization) and other periodic components (on 30 day basis for other periodic components) excluding the unemployment insurances of that immediate schedule where principal component is defined and greater than '0'. The schedule under consideration will be that schedule falling due after the latest effective date of UDE COMPONENT_NAME_ACTV where value is set to '1'.</p>
MONTHS_IN_SCH_RD	<p>This SDE returns the number of months in the schedule, returning the absolute integer, i.e. rounding down.</p>

As this component needs to finance during loan booking, you need to maintain this as a charge component.

For Insurance type as 'Unemployment Insurance' needs to be defined as a 'charge' component with 'user defined formula'. During account creation, you need to check the boxes 'Funded during Initiation' and 'Calculate Gross Principal' for this charge component.

This will yield in gross principal of unemployment insurance premium and the amount financed will be calculated by adding up the calculated Insurance value and its Tax component.

The SDE IMMEDIATE_SCHEDULE_DUE will consider the first EMI value of the original amount financed. Using the amount financed, the EMI will be calculated.

5.4.3.3 **Bearing- Normal Libranza**

You need to define the following UDE for the unemployment insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for unemployment insurance is 'UNEMP_INSR', the UDE UNEMP_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for unemployment insurance and '0' indicating the customer has not opted for unemployment insurance.</p>

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
IMMEDIATE_SCHEDULE_DUE	<p>This SDE returns the sum of EMI (If capitalization of interest is opted, EMI will reflect on capitalization) and other periodic components (on 30 day basis for other periodic components) excluding the unemployment insurances of that immediate schedule where principal component is defined and greater than '0'. The schedule under consideration will be that schedule falling due after the latest effective date of UDE COMPONENT_NAME_ACTV where value is set to '1'.</p>
UNEMP_INSR_PRM	<p>This SDE returns the unemployment insurance calculated for the first time.</p>

If the box 'Accrue on Start Date' is checked at the contract level, the system will start the accruals on the start date.

5.4.3.4 Bearing – Special Libranza

Two insurance components must be defined, one with discounted formula and other with bearing formula. If loans have capitalization period, the system will calculate the premium amount for discounted component.

You need to define the following UDE for the unemployment insurance components:

UDE ID	DESCRIPTION
COMPONENT_ACTV	<p>THE UDE COMPONENT NAME_ACTV must be added at the product level.</p> <p>E.g., If the component for unemployment insurance is 'UNEMP_INSR', the UDE UNEMP_INSR_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating the customer has opted for unemployment insurance and '0' indicating the customer has not opted for unemployment insurance.</p>

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
CAPT_MONTHS	<p>This SDE returns the number of months resolved from the 'Unemployment Insurance Recalculation Maintenance' screen based on the number of capitalization days.</p> <p>Used only for discounted component for Special Libranza.</p>
IMMEDIATE_SCHEDULE_DUE	<p>This SDE returns the sum of EMI (If capitalization of interest is opted, EMI will reflect on capitalization) and other periodic components (on 30 day basis for other periodic components) excluding the unemployment insurances of that immediate schedule where principal component is defined and greater than '0'. The schedule under consideration will be that schedule falling due after the latest effective date of UDE COMPONENT_NAME_ACTV where value is set to '1'.</p>
UNEMP_INSR_PRM	<p>This SDE will return the unemployment insurance calculated for the first time.</p>

If the box 'Accrue on Start Date' is checked at the contract level, the system will start the accruals on the start date

Capitalization of irregular schedule interest - The Capitalized option in the component schedule definition must be opted.



The CL product saves the components in alphabetical order. When the schedules are getting generated during loan creation, the system generates each component schedule in the same alphabetical order. The system resolves the basis for 'IMMEDIATE_SCHEDULE_DUE' in alphabetical order of components which are before the unemployment insurance component.

Example

If unemployment insurance component name is 'BEAR_UNEM' and interest component is 'MAIN_INT', principal component is 'PRINCIPAL' and life insurance component is 'BEAR_LIFE', then 'IMMEDIATE_SCHEDULE_DUE' considers only 'BEAR_LIFE'. So, to overcome this, unemployment insurance name must be defined in such a way that the system alphabetically resolves this after the aforementioned three components, say as 'UNEM_BEAR'.

5.4.4 National Collateral Fund Commission

The NCF product code, recovery frequency and coverage percentage are maintained at the collateral level. During creation of loans backed by national collateral fund, the coverage percentage will be captured from FNG collateral attached to the loan. The system validates that only one FNG collateral can be associated to an account.

5.4.4.1 Annually Discounted


You need to define the following UDE for the FNG Commission:

UDE ID	DESCRIPTION
FNG_ACTV	<p>THE UDE FNG_ACTV must be added at the product level.</p> <p>E.g., If the component for NCF commission is 'FNG', the UDE FNG_ACTV must be used in the formula, to decide if calculation of insurance is required or not.</p> <p>This should be defined with value '0' or '1'.</p> <p>'1' indicating that the customer has opted for FNG commission and '0' indicating that the customer has not opted for FNG commission.</p>

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
PRINCIPAL_OS_MONTHEND	<p>This SDE returns the principal Outstanding as on the month end of the date of calculation. If no due date falls on the processing month, the previous month end's principal outstanding will be considered. Once calculated, the principal outstanding value for the schedule will be stored. This value is further force recalculated during the batch process on due dates.</p>

SDE ID	DESCRIPTION
NCF_COMMISSION	This SDE resolves the commission rate based on NCF Product, Recovery Frequency, Collateral Coverage Percentage and Tenor. Here, tenor is rounded up to the next whole integer. The system stores the resolved value and on successive calculation returns the same value.
MONTHS_IN_SCH_RU	This SDE returns the number of months in the schedule, rounding up to the next whole number.
COMM_REQ_FREQ	<p>This SDE returns the national collateral commission recovery frequency from FNG collateral attached to the loan.</p> <p>The following are different values the SDE will return based on collateral:</p> <ul style="list-style-type: none"> • Discounted Annually discounted. • Discounted for tenor. • Discounted for tenor, financed. • Discounted for Short Term.

 SDE TENOR is used to define the charging minimum of 90 days of the insurance premium with loan tenor not exceeding 90 days.

The system builds schedules based on commission recovery frequency defined in the FNG collateral attached to loan. The system builds schedules from the value date without considering the irregular schedule. A batch recalculates the FNG component on due date.

5.4.4.2 Discounted For Tenor

The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
NCF_COMMISSION	This SDE resolves the commission rate based on NCF Product, Recovery Frequency, Collateral Coverage Percentage and Tenor. Here, tenor is rounded up to the next whole integer. The system stores the resolved value and on successive calculation returns the same value.
COMM_REQ_FREQ	This SDE returns the national collateral commission recovery frequency from FNG collateral attached to the loan. The following are different values the SDE will return based on collateral: Discounted Annually discounted. Discounted for tenor. Discounted for tenor, financed. Discounted for Short Term.

The system builds schedules based on commission recovery frequency defined in the FNG collateral attached to loan.

5.4.4.3 Discounted For Tenor – Financed

The calculations are based on factors in 'Discounted for Tenor'. The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
NCF_COMMISSION	This SDE resolves the commission rate based on NCF Product, Recovery Frequency, Collateral Coverage Percentage and Tenor.
PREGP_PRINCIPAL	This SDE returns the net principal of the loan.
COMM_REQ_FREQ	This SDE returns the national collateral commission recovery frequency from FNG collateral attached to the loan. The following are different values the SDE will return based on collateral:

SDE ID	DESCRIPTION
	Discounted Annually discounted. Discounted for tenor. Discounted for tenor, financed. Discounted for Short Term.
IVA_FACTOR	This SDE returns the tax percentage defined in bank parameter.

The system builds schedules based on commission recovery frequency defined in the FNG collateral attached to loan.

For discounted financed type of FNG, the check boxes 'Funded during Initiation' and 'Calculate Gross Principal' for the charge component should be checked during account creation, which in turn will do the capitalization and the amount financed will be derived along with the grossed up value of FNG and Tax(if any) amounts.

5.4.4.4 Discounted For Tenor – Short Term

The calculations are based on factors in 'Discounted for Tenor'. The following SDEs are used for calculation of insurance premium:

SDE ID	DESCRIPTION
NCF_COMMISSION	This SDE resolves the commission rate based on NCF Product, Recovery Frequency, Collateral Coverage Percentage and Tenor. Here, tenor is rounded up to the next whole integer. The system stores the resolved value and on successive calculation returns the same value.
COMM_REQ_FREQ	This SDE returns the national collateral commission recovery frequency from FNG collateral attached to the loan. The following are different values the SDE will return based on collateral: Discounted Annually discounted. Discounted for tenor. Discounted for tenor, financed. Discounted for Short Term.

The system builds schedules based on commission recovery frequency defined in the FNG collateral attached to loan.

5.4.5 Unidirecto

The following SDEs are used to support unidirecto:

SDE ID	DESCRIPTION
DAYS_EXT_SCH	This SDE returns the number of days as per days in month parameter for the component in unidirecto product, based on final maturity date.
NCF_COMMISSION	For unidirecto type of loans, resolution is driven by considering final maturity date.

The SDE DAYS_EXT_SCH is used for discounted life insurance. The SDE REFUND_AMT considers the refund for Life Insurance amount based on final maturity date.

5.5 Rate Control Process

The policies 'DSBR_RATE_CAP_POL', 'GEN_RATE_CAP_POL' validate the rate ceiling. This is done in the following manner

- Identify charge and commission components that have been included for base rate computation. Value of these components is used to arrive at corresponding charge/commission factor, which is then converted into effective annual form. Effective annual value of interest and commission rate is used to calculate the total rate of interest i.e. base rate.
- In DSBR_RATE_CAP_POL, base rate is compared with the least of Usura rate and Maximum Remuneratory rate. If base rate is found to be greater, the interest rate will be re-arrived in the following manner

$$\text{Main Intt. Rate} = \left[\frac{(1 + \text{Least}(\text{Usura Rate E.A.}, \text{Maximum Remuneratory Rate E.A.}))}{(1 + \text{Comm}_1 \text{ E.A.}) \times (1 + \text{Comm}_2 \text{ E.A.}) \times (1 + \text{Comm}_n \text{ E.A.})} \right] - 1$$

- However, if base rate is found to be within the prescribed rate ceiling i.e. base rate is lesser than or equal to the least of Usura rate and Maximum Remuneratory rate, the least of original interest rate, Usura rate and Maximum Remuneratory rate will be taken as the rate for interest calculation.
- In GEN_RATE_CAP_POL, base rate is compared with Usura rate and if base rate is found to be greater than Usura rate, the interest rate will be re-arrived in the following manner

$$\text{Main Intt. Rate} = \left[\frac{(\text{Usura Rate E.A.})}{} \right]$$

- However, if base rate is found to be within the prescribed rate ceiling i.e. base rate is lesser than or equal to the Usura rate, the least of original interest rate and Usura rate will be taken as the rate for interest calculation.

DSBR_RATE_CAP_POL is associated with DSBR event and GEN_RATE_CAP_POL is associated with REVN, VAMI, SROL and ROLL events.

5.5.1 Rate Control Process During Account Creation

Bearing Type Loan:

- For first schedule, the system builds the schedule using minimum of the Remuneratory, Usura rate and Agreed Interest rate till the effective end of Usura Rate and Remuneratory. If agreed interest rate is less than the Remuneratory and Usura rate, all the schedules will be built using agreed interest rate. If not, the schedule will be built using minimum of Usura Rate/Remuneratory till Usura/ Remuneratory effective until date, and the remaining part of the schedule will be built using the agreed rate.
- For other schedules, the system will build the schedule using minimum of Usura Rate and Agreed Interest rate.
 - If Usura rate is not available for full schedule, the system will break the schedule in two part one with Usura Rate available at start of the schedule until the Usura effective until date and remaining part of schedule and future schedules with agreed rate.

Discounted Type Loan:

- The system builds the schedule using minimum of the Remuneratory, Usura Rate and Agreed Interest rate till the schedule due date (even if the effective until date of Usura/ Remuneratory is less than the schedule due date).

Fixed Type Loan:

- For first schedule, the system will consider the given rate for the schedule days. If schedule is for 33 days, the given rate will be considered as 33 days rate. The system will convert this rate to 'EA' and after comparison, the system will convert min of given rate Usura Rate to the 33 days rate and build the schedule. On loan creation, the system builds all the schedule based on aforementioned logic till Usura rate is available in the system.

CLBATCH has a sub-process, namely ICAP – interest cap, to trigger an automatic rate revision for loans belonging to a product class for which Usura rate has been modified and they do not have any automatic/periodic rate revision due on the same day. For bearing type of loans, this revision will be effective from the date of modification of Usura rate. This process is configured after automatic/periodic rate revision process.

System will abort the mark end of transaction (EOTI) process; if rates (Usura/Maximum Remuneratory/Penal) for next working days are not available in system.



The system will not carry out rate control process for Hold operation which is always prior to loan creation. For Hold operation, the system uses the specified rate or reference rate available at the time of the Hold operation. Future-dated Hold operation is allowed.

5.6 Hold Operation

Loan account details can be kept on hold. This will allow you to modify all the information but loan account number as long as the account is in 'Hold' status.

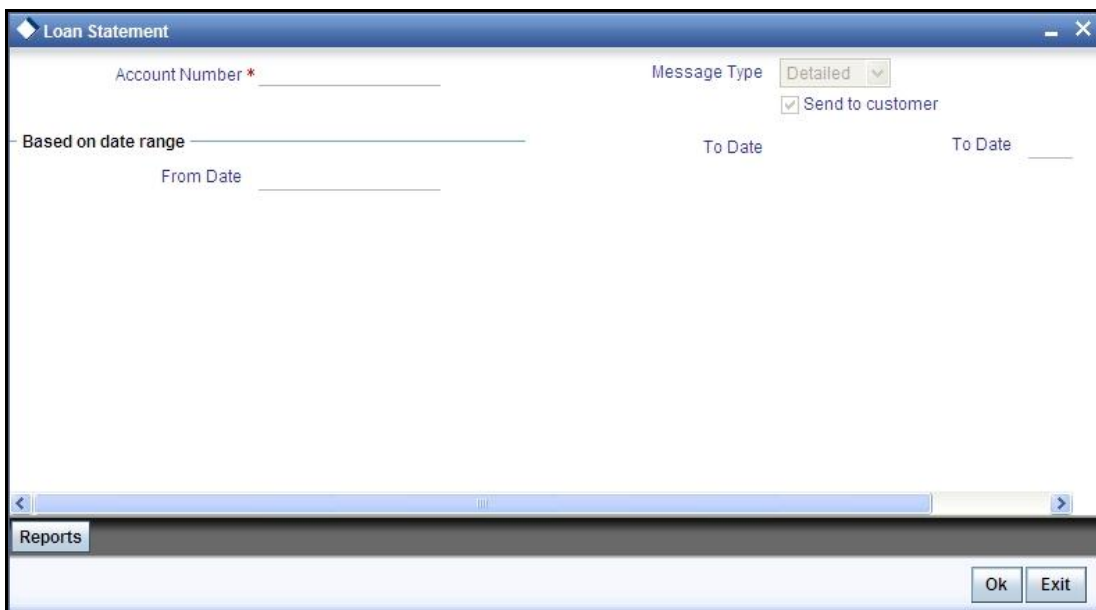
Once all the information is finalized, you can send the request for loan creation. If user is configured as auto-auth, the system will authorize the loan and automatically trigger the manual disbursement. If user is configured as non auto-auth, the system will create the loan in unauthorized status.

For the fomento loans, the system will create a liability loan in un-authorized status. If you eliminate the asset loan without authorizing it, the system will bring up the asset loan to the hold status and the system will eliminate the liability loan.

This functionality will work only for manual disbursement loan. For automatic disbursement loan, the system will delete the account without moving from active to hold status.

5.7 Generating a Loan Account Statement

Oracle FLEXCUBE allows you to generate the loan statements along with the time period on an ad-hoc basis. You can generate the loan statement using 'Loan Statement' screen. You can invoke this screen by typing 'CLDLSTMT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



Account Number

The system will display all the authorized active CL accounts in the current branch. However, you can amend this field.

Message Type

Select the specific message type for loan statement from the drop-down list. Following are the options available in the drop-down list:

- Detailed

- Summary

Send to Customer

Check this box to send a message to a customer.

5.7.1 Specifying Date Range

From Date

Specify the 'From Date'.

If you have not specified the 'From' date, then the system will default the 'From' date as CL account book date.

To Date

Specify the 'To Date'.

If you have not specified the 'To' date, then the system will default the current date.

Clicking on the 'Report' button, you can generate the report based on the options selected. You can generate the message by checking 'Send to Customer' checkbox, before generating the report. This message is stored in the outgoing browser. If the message generation fails, then the system will display an error message.

5.7.2 Confirming Advice Print

Once a transaction has been authorized, the system shifts the focus to 'Advices' tab. Select the message that you wish to view or print and click 'View' button. The system displays the full message in a new window. Verify the message and click 'Print' to print it.

5.8 Creating a Commitment Account

A 'commitment' is an agreement by a bank to make available a specified amount of fund to the borrower for a certain period of time. It is a 'line of credit' that is made available by the bank to a borrower. The entire commitment amount may be disbursed in full at the time of authorization or disbursed partially on predefined scheduled dates.

You can link a commitment to more than one loan, provided funds are available, and the loan(s) given against the commitment amount may or may not be in the same currency. When a loan is disbursed against a commitment, there is no movement of funds involved but only a setting aside of funds. Hence there is no disbursement or credit to the borrower's account.

You can create a commitment contract using the 'Commitment Account Details' screen. You can invoke this screen by typing 'CLDCMTMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Click new icon in the toolbar of the screen. The system will display 'Transaction Branch Code' screen. Here you can select the transaction branch.



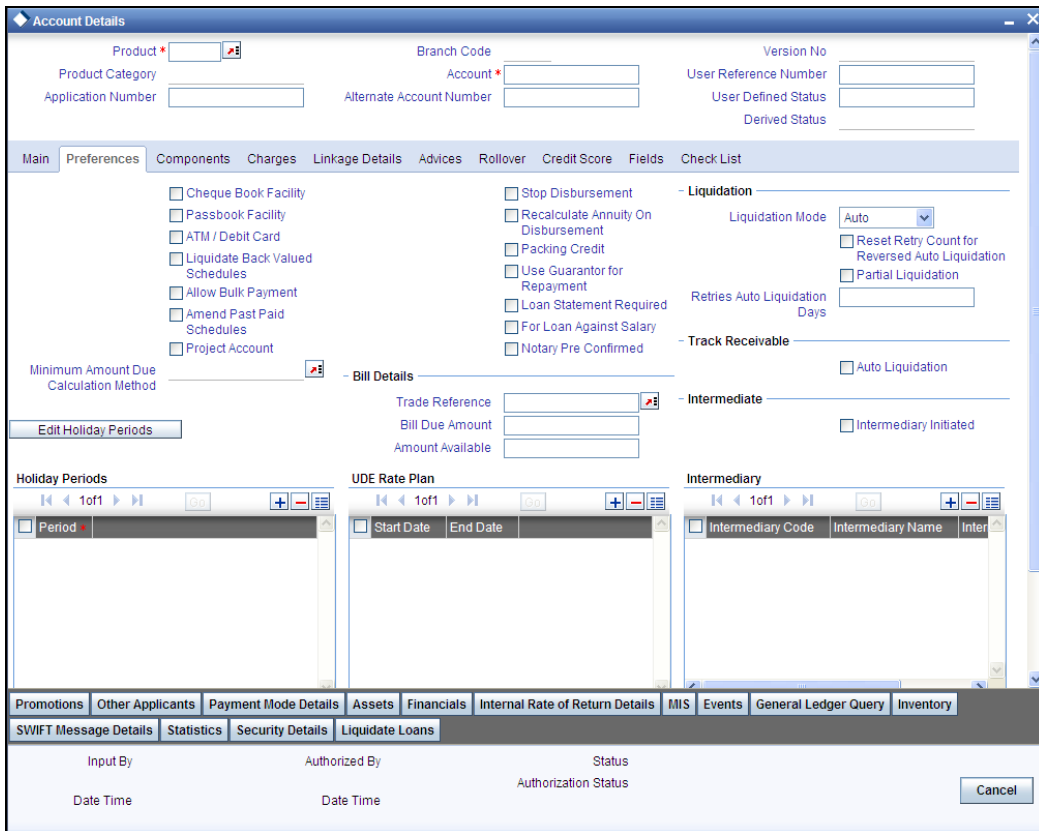
The system defaults the logged-in branch by default as the transaction branch.

Transaction Branch

Select the appropriate branch from the list of branches available in the option list.

While clicking 'Ok' button, the system validates the access rights of the selected branch and function for the user. If you don't have appropriate rights on the selected branch and function, the system will display an error message. If you select a valid branch, the system updates the same as transaction branch and the transaction will be posted for this branch.

You can enter details of the commitment account in the above screen. This screen is similar to the 'Account Details' screen.



Allow Bulk Payment

Check this box to indicate whether the accounts under a commitment should be considered for bulk processing. Various disbursements are allowed for a corporate customer and these are treated as loans with separate products and EMI schedules. Assigning individual payments as Bulk payments provides the facility of viewing multiple loans under a single commitment.

For field explanations on all tabs except Commitment tab refer section 'Creating a Loan Account' in this chapter.

5.8.1 Commitment Tab

To view the utilization details of the commitment contract click 'Commitment' tab.

The screenshot shows the 'Account Details' window with the 'Commitment' tab selected. The window contains several input fields for account information, a set of checkboxes for 'Disallow Future Disbursement' and 'Mortgage Group', and two date fields for 'Last Available Date' and 'Loan Maturity Date'. Below these is a table with columns for 'Commitment Sequence Number', 'Commitment Event', 'Linkage Branch Code', 'Linked Reference', 'Linkage Date', and 'Linkage Event'. The table is currently empty. At the bottom, there are fields for 'Maker ID', 'Authorized By', 'Status', 'Date Time', and 'Authorization Status', along with an 'Exit' button.

You can capture the following details on this screen:

Disallow further Disbursement

If you check this option, the system will not allow further disbursements on this commitment account. If you do not check it, the system allows further disbursements on this commitment account. By default, the system displays the status of this box as checked. However, you can modify this.

Mortgage Group

A mortgage in Oracle FLEXCUBE may have different repayment styles, rate conditions and maturity conditions. By checking this option, you can use this commitment for such mortgages with multiple repayment formula.

Last Available Date

Enter the last available date. This is the final date as of which all disbursements under this commitment should be completed. Beyond this date, the system will not allow disbursements on this commitment.

Loan Maturity Date

Enter the loan maturity date. All disbursements under this commitment should be matured as of this date. For this commitment, the system will not allow disbursements with a maturity date beyond the loan maturity date.

The following utilization details of all commitments linked against a loan account are displayed in the above screen:

- Commit Sequence Number
- Commitment Event
- Linkage Branch Code
- Linkage Reference Number
- Linkage Date
- Linkage Event
- Linkage Event Sequence Number
- Linkage Currency
- Linkage Currency Amount
- Linked Project ID
- Linked PPC ID
- Commit Amount
- Increase Decrease Flag
- Commit Balance

5.8.2 **Applying Different Repayment Styles for a Commitment**

You can have different repayment styles, rate conditions and maturity conditions for the same mortgage account maintained in Oracle FLEXCUBE. For this, repayment of principal amount needs to be divided into multiple disbursement slabs. You can use the following fields on the 'Commitments' tab to enable this feature:

- Disallow further Disbursement
- Mortgage Group
- Last Available Date
- Loan Maturity Date

Please lookup the above section 'Commitments Tab' for details on inputs for these fields.

Example

Consider a mortgage of 500,000 against a specific property. Based on the terms agreed upon by the bank and the customer, you can split the mortgage principal into multiple disbursements as shown below:

Disbursement	Conditions
Disbursement of first 200,000	Interest only, variable rate, 20 years with balloon principal repayment
Disbursement of second 200,000	Annuity (EMI type), 10 year fixed rate

Disbursement	Conditions
Disbursement of final 100,000	Interest only, fixed rate, 5 year, balloon repayment via insurance policy

In this case, interest repayment may be started at any point of time. However, repayment of the principal amount can begin only after the disbursement of entire 500,000.

You can initiate closure of such mortgages only after closing all disbursements with various conditions, i.e. after liquidation of all loan contracts. Further to closure of such mortgages, you need to complete two housekeeping activities viz. notification to notary and release of collateral.

5.8.3 Charging Fee on Commitments

A fee is charged by the bank at the time of entering into a commitment agreement. This fee is repayable at predefined schedules. Also there can be another fee component charged on the amount of commitment that is utilized and un-utilized. The following SDEs are used to define fees on utilized/un-utilized commitment amount:

- COMMITMENT_UTILIZED
- COMMITMENT_UNUTILIZED

For more details on maintaining SDEs refer section 'Maintaining System Data Elements' in the Chapter 'Maintenances and Operations' of this User Manual.

5.8.4 Processing Events for a Commitment

The following events are triggered by the system during the different stages of a commitment contract:

- **DSBR Event** – DSBR event is triggered for a commitment when the commitment amount is disbursed. It can be auto or manual. There is no movement of funds involved but only a setting aside of funds. Only such disbursed amount is available for linking to a CL Loan account. Entire commitment amount may be disbursed in full at the time of authorization or disbursed partially on scheduled dates as defined. You can choose to have an automatic disbursement or manual disbursement for the commitment contract. System validates any physical transfer of funds when DSBR event is triggered. Reversal of DSBR Event in Commitment Contract is not permitted if the commitment available amount falls below the utilized amount.
- **ACCR Event** - ACCR event is triggered when you define an INTEREST component for collecting fees on the un-utilized commitment on a periodic basis. The fees may be collected automatically or manually as defined in the product.
- **LINK Event** – LINK event is triggered when a Loan Account is linked and disbursed against a Commitment. This results in increasing the utilization of the commitment amount and availability of the same comes down. Contingent entries which are passed when the commitment contract is initiated are reversed when this event is triggered up to the extent of the linked amount.
- **DLNK Event** – DLINK event is triggered when payment is made for a loan account which is linked to a Commitment contract of revolving type. This happens only if the payment is done before the validity period of the commitment contract. Once the commitment contract is liquidated, payment does not result in triggering of DLINK event. This results in decreasing of utilization of the commitment amount and availability of the same is increased. Contingent entries are passed when a DLINK event is fired, upto the extent of the delinked amount.
- **CLOC Event** - CLOC event is triggered when the contingent entries are reversed upto the extent of unutilized commitment amount and the contract is marked as liquidated, on the maturity date of a commitment contract. The Commitment contract will not be liquidated if there is any outstanding fee. This happens during end of day batch processing. All the commitment contracts with maturity date as of today are marked as liquidated during End of Day processing. Contingent entries for the un-utilized commitment funds are reversed.
- **VAMI** – VAMI event is triggered when an amendment is done in the commitment.

- **ROLL** - ROLL event is triggered if a rollover is done in the commitment account. You can choose to liquidate the principal component of the loan account and then the system triggers the DLNK event fire in the commitment contract. You can also choose to increase the principal, in such case the LINK event is triggered in the commitment contract. You can also choose to increase the linkage amount or add a new commitment. LINK event is triggered for the newly linked commitment. DLNK event is triggered for the Old De- linked commitment.
- **NOVA** – NOVA event is triggered when you change the customer during reassignment in commitment. However, in case of loan account, if NOVA is triggered, DLNK is fired in commitment. In this case DLNK event is triggered for the previous commitment contract and LINK event is triggered for the new commitment contract.
- **RNOG** - RNOG event is triggered when principal liquidation and principal increase is done in commitment. The LINK event is triggered when principal is increased in loan account during RNOG and DLNK event is triggered when Principal liquidation is done.

5.8.5 Viewing Commitment Account Details

You can view the commitment account details using 'Commitment Summary' screen. To invoke this screen, type 'CLSCMTMT' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.

The screenshot shows the 'Commitment Summary' application window. The window title is 'Commitment Summary'. It contains a search form with the following fields:

- Account Number
- Customer Id
- Value Date
- Amount Financed
- User Defined Status
- Account Status
- Branch Code
- Product Code
- Maturity Date
- Currency
- Alternate Account Number
- Authorization Status

Below the search form are buttons for 'Search', 'Advanced Search', 'Refresh', and 'Reset'. Below these buttons is a table with the following columns: 'Account Number', 'Branch Code', 'Customer Id', 'Product Code', 'Value Date', 'Maturity Date', 'Amount Financed', and 'Cur'. The table is currently empty. At the bottom right of the window is an 'Exit' button.

You can click 'Search' button to view all the pending functions. However, you can to filter your search based on any of the following criteria:

Account Number

Select the account number from the option list.

Customer Id

Select the customer id from the option list.

Value Date

Specify the value date.

Amount

Select the amount financed.

User Defined Status

Select the user defined status from the option list.

Account Status

Select the status of the account from the drop-down list.

Branch Code

Select the branch code from the option list.

Product Code

Select the product code from the option list.

Maturity Date

Specify the value date.

Currency

Select the currency of the transaction from the option list.

Alternate Account Number

Select the alternate account number from the option list.

Authorization Status

Select the authorization status of the contract from the drop-down list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Account Number
- Branch Code
- Customer Id
- Product Code
- Value Date
- Maturity Date
- Amount Financed
- Currency
- User Defined Status
- Alternate Account Number
- Account Status
- Authorization Status

Click 'Advanced Search' to display the screen below:

You can query a contract based on any of the following details:

- Account Number
- Branch Code
- Customer Id
- Product Code
- Value Date
- Maturity Date

- Amount Financed
- Currency
- User Defined Status
- Alternate Account Number
- Account Status
- Authorization Status

5.9 Authorizing Loan/Commitment Account

After entering the loan/commitment account details click 'Save' icon to save the account details.

To authorize an account, click 'Authorize' icon on the Application toolbar. The 'Account Authorization' screen is displayed.

Account Number* _____

Branch* _____

Generate Message

Authorization Key

Field Name	Value

Change Log

Field Changed	Old	New

Event Override

Confirmed	Sequence Number	Error Code	Advice Code	Status	Authorized By	Authorization Date
<input type="checkbox"/>						

Ok Exit

The loan account number and the branch details are defaulted here.

The following detail needs to be selected, as required:

Generate Message

Check this box if you want swift messages to be generated either for a customer transfer or a bank transfer along with a cover. The generated message can be viewed in the messages browser. Even if the box is left unchecked you can go to messages browser at a later point of time and generate the message.

If the message generation fails for some reason, the account is authorized and you have to go to the browser to manually generate the swift message.

All other advices related to BOOK/INIT/DSBR events are not generated at this point and you need to go to the message browser to do the same.



Note the following

You cannot authorise a contract from the contract screen in the following cases:

- the contract has multilevel of authorization pending, the same will be done using the 'Multilevel Authorization Detailed' screen
- the level of authorization is greater than or equal to 'N'
- the 'Nth' or the final level of the users authorisation limit is less than the difference between amount financed and sum of the limits of all the users involved in authorizing a transaction, this case holds good when the 'Cumulative' field is checked in the 'Product Transaction Limits Maintenance' screen
- the transaction amount is greater than the authoriser's authorisation limit if the 'Cumulative' field is unchecked in the 'Product Transaction Limits Maintenance' screen

5.10 Multilevel Authorization of a Contract

High value transactions may require multilevel of authorization. The levels of authorizations are defined in the 'Product Transaction Limits' screen. You can use the 'Multilevel Authorization Detailed' screen for authoring a contract n-1 times. However, final authorization can take place only in the contract screen.

For more details, refer the 'Multilevel Authorization of Contract/Loan Account' section in the 'Procedures' User Manual.

5.11 Viewing Details of CL Accounts Linked to L/C

You can query CL accounts linked to the L/C in the 'Commitment/Limits Summary' screen. You can invoke this screen by typing 'CLSENTTY' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot displays the 'Commitment/Limits Summary' application window. The window contains a search form with the following fields:

- Bulk Entity Reference
- Account Number
- Customer Id
- User Defined Status
- Account Status
- Authorization Status
- Branch Code
- Product Code
- Maturity Date
- Currency
- Alternate Account Number

Below the search form are buttons for 'Search', 'Advanced Search', 'Refresh', and 'Reset'. A table below shows a list of records with the following columns: Bulk Entity Reference, Branch Code, Account Number, Product Code, Customer Id, Maturity Date, and User Defined S. The table is currently empty. At the bottom of the window, there is a 'Detailed' button and an 'Exit' button.

You can query a record using the following options:

- Base Entity Type
- Commitment Limit Number
- Customer Identification
- User Defined Status
- Account Status
- Branch
- Product Code
- Maturity Date
- Currency

- Alternate Account Number
- Authorization Status

The following details get displayed:

- Account Number
- Branch
- Customer Identification
- Product Code
- Value Date
- Maturity Date
- Amount Financed
- Currency
- User Defined Status
- Account Status
- Alternate Account Number
- Authorization Status

In this screen, click a child record to invoke 'Account Details' screen.

5.12 Manual Confirmation by Notary

Usually a notary confirms the collaterals (linked to the loan) before loan account creation. In case, the confirmation from notary is not received before loan account creation, you can initiate confirmation manually using the 'Manual Notary Confirmation' screen. You can invoke this screen by typing 'CLDNOCON' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

You need to specify the following details here:

Branch Code

Specify the unique identifier of the branch where the loan account (for which notary confirmation needs to be updated) is created. The adjoining option list displays all branches maintained in the system. You can select the appropriate one.

Account Number

Specify the loan account number / commitment account number for which notary confirmation needs to be updated. The adjoining option list displays all loan accounts/commitment accounts (for which the “Notary Confirmation Required” check box is checked at the product level, and “Notary Pre Confirmed” check box is unchecked at the account level) maintained in the system. You can select the appropriate one.

Notary Confirmation Date

The system displays the current system date as the date of confirmation.

Notary Status

Select the notary status from the adjoining drop-down list. This list displays the following values:

- Confirmed
- Reject

If the notary status is ‘Confirmed’, then the system will trigger NCON event during authorization. If the notary status is ‘Reject’, the system will trigger NREJ event which in turn triggers the reversal of the contract during authorization.

Remarks

Enter the remarks for confirming or rejecting the collateral details.

5.12.1 Viewing Accounts Linked to Loans/Commitments

Retail lending accounts linked to a loan or commitment can be queried for by using the Limit/Commitment summary screen.

To invoke this screen type in 'CLSENTTY' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.

The screenshot shows a software interface titled "Summary". At the top, there are several input fields for search criteria: Bulk Entity Reference, Account Number, Customer Id, User Defined Status, Account Status, Authorization Status (a dropdown menu), Branch Code, Product Code, Maturity Date, Currency, and Alternate Account Number. Below these fields are "Search" and "Advanced" buttons, and "Refresh" and "Reset" buttons. A table is displayed below the buttons, showing a list of records. The table has columns for Bulk Entity Reference, Branch Code, Account Number, Product Code, Customer Id, Maturity Date, User Defined Status, and Currency. The table shows one record. Below the table is a "Detailed" section with an "Exit" button.

You can select a particular record to view based on the limit/commitment parameters fed in the screen and the base entity type.

To view a particular record from the list click on the desired record from the list displayed. Only the detailed records of the accounts for the current branch are available for view.

6. Capturing Additional Details for a Loan

6.1 Introduction

The buttons on the 'Account Details' screen enable you to invoke a number of functions vital to the processing of a Loan account.

The screenshot shows the 'Account Details' window with the following sections:

- Header Section:** Product, Product Category, Application Number, Branch Code, Account, Alternate Account Number, Version Number, User Reference, User Defined Status, Derived Status.
- Navigation Menu:** Main, Preferences, Components, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List.
- Main Form Fields:**
 - Customer Id, Customer Name, Currency, Amount Financed, Book Date, Value Date, First Pay By Date, Product Default.
 - No of Installments, Unit, Frequency, Installment Start Date, EMI Amount, Due Date On, Maturity Type, Maturity Date, Tenor.
 - Net Principal, Loan To Value, Index Exchange Rate, Subsidy Customer Id, Calculate Gross Principal, Enrich, Edit User Defined Element Details.
 - EMI Details: EMI Frequency Unit, EMI Frequency, Minimum EMI, Maximum EMI, Base End Date.
- Effective Date Section:** Effective Date, User Defined Element Values.
- Bottom Navigation Bar:** Promotions, Other Applicants, Payment Mode Details, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, Inventory, SWIFT Message Details, Statistics, Security Details.
- Footer:** Input By, Authorized By, Status, Date Time, Authorization Status, Exit button.

These buttons have been briefly described below.

Buttons	Description
MIS	Click this button to define MIS details for the Loan.
GL Balance	Click this button to view the GL balances for the various components that are defined for an account.
IRR Details	Click this button to view the IRR value for the chosen component for different effective dates.
Events	Click this button to view the details of the events and accounting entries that a contract involves.
Installment	Click this button to view the installment details for the Loan.
Swift Msg Details	Click this button to view the swift message details pertaining to any transaction on the account

Buttons	Description
OFAC Check	Click this button to call the OFAC service and view the Response from the OFAC system.

Enter valid inputs into all the mandatory fields or you will not be able to save the loan contract. After making the mandatory entries for the Loan account, save the account details by either clicking save icon in the toolbar or selecting Save from the Actions menu.

A contract that you have entered should be authorized by a user bearing a different Login ID, before the EOD is run.



You have the option to amend all the unauthorized entries made for a Loan. However, after authorization, certain fields cannot be amended.

Click 'Exit' or 'Cancel' to go back to the Application Browser.

6.2 Viewing MIS Details of the Loan

Click 'MIS' button to view the MIS details screen. This is a view only screen, which provides a MIS details for an account.

The screenshot displays the MIS details screen with the following sections:

- Contract Reference:** A text field with a red asterisk indicating it is mandatory.
- MIS Group:** A dropdown menu with 'Default' selected.
- Link To Group:** A checkbox.
- Input:**
 - Radio buttons for 'Link To Group', 'Related Reference Number', and 'Related Account'.
 - Fields for 'Related Account', 'Related Reference Number', and 'MIS Head'.
 - Fields for 'Rate Code' and 'Spread'.
- Rate At:**
 - Radio buttons for 'Rate Type', 'Pool Code', and 'Contract Level'.
 - Fields for 'Interest Method', 'Reference Rate', and 'Pool Code'.
 - Fields for 'Cost Code 1' through 'Cost Code 5'.
- Transaction MIS:** A list of 10 'Transaction MIS' entries, each with a dropdown menu.
- CompositeMIS:** A list of 10 'Composite MIS' entries, each with a dropdown menu.
- FundMIS:** A list of 10 'Fund MIS' entries, each with a dropdown menu.
- Buttons:** 'Ok' and 'Cancel' buttons at the bottom right.

For more details on this screen refer section 'Defining MIS details for an account or contract' in the chapter 'Defining MIS Details for a Customer, Account Class, Account, Product, and Contract' in the 'Management Information System' User Manual.

6.3 Viewing Account GL Balance

Click 'GL Balance' button to view the GL details screen. This is a view only screen, which provides a single snapshot of the latest GL balances for the various components that are defined for an account.

The screenshot shows the 'GLBalance' application window. At the top, there are input fields for 'Branch Code', 'Account', 'Alternate Account Number', 'Customer Id', and 'Customer Name' on the left, and 'Product Code', 'Product Category', 'Amount Financed', 'Currency', 'Value Date', and 'Maturity Date' on the right. Below these fields are two data tables. The first table, titled 'Components', has columns for 'Component Name' and 'Description'. The second table, titled 'GL Details', has columns for 'GL Code', 'GL Type', 'Status Code', 'Balance', and 'Loy Balance'. Both tables have a 'Go to Page' control and a 'Cancel' button at the bottom right.

The information displayed includes:

Account Details

- Branch Code: The branch code of the account maintained in the valid tables of consumer lending.
- Account No: Applicant's account number, which is auto generated if it is so maintained under the branch parameter.
- Alt Account No: Alternate account number of the applicant.
- Customer Id: Applicant's customer Id
- Product Code: Product code of the product associated with the account, defaulted from Product definition.
- Product Category: The product category availed by the customer.

- Amount Financed: The total loan amount
- Currency: Currency in which the transaction will be conducted for the account.
- Value Date: value date for the account.
- Maturity Date: Maturity date for the loan account.

Components

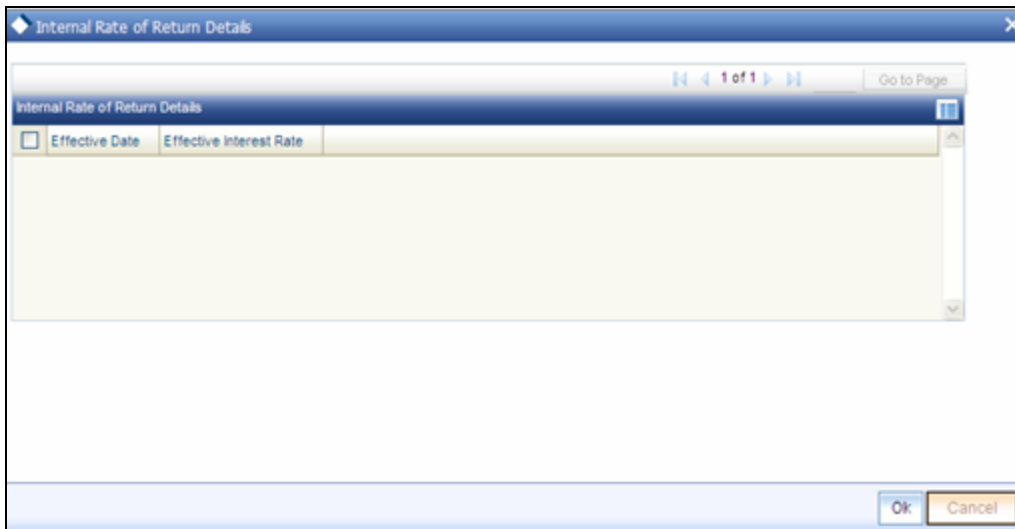
- Component Name: Name of the component defined for the product to which the account is linked.
- Description: Component description as defined at the Product level.

GL Details

- GL Code: This is the account head to which the component will be dr / cr. This is defined at the product level.
- Type: GL category as defined in the GL chart of accounts
- Status: GL type as defined in the GL chart of accounts
- Balance: GL balance in terms of the account currency
- Lcy Balance: GL balance in terms of the local currency

6.4 Viewing Internal Rate of Return (IRR) Details

Click the 'IRR Details' button and invoke the 'IRR Details' screen. This screen displays the IRR value for the chosen component for different effective dates. The values are displayed in the descending order of the dates.



The following details are displayed here:

- Effective Date of the interest rate

- The interest rate

6.5 Capturing Swift Message Details

You can view the swift message details pertaining to any transaction on the account in the 'Swift Msg Details' button.

The screenshot shows a 'Swift Message Details' window with the following sections:

- Account**: Text field for account number.
- Branch Code**: Text field for branch code.
- Beneficiary Institution**: Five rows of text fields with icons.
- Sender To Receiver Information**: Six rows of text fields with icons.
- Message Details**: Includes a 'Cover Required' checkbox and four rows of text fields.
- Payment Details**: Four rows of text fields.
- Charge Details**: Includes 'Account Currency', 'Our Correspondent', 'Receiver', 'Transfer Type' (dropdown), and radio buttons for 'Remitter - All Charges' (Charges, Charges, Remitter).
- Ordering Institution**: Five rows of text fields with icons.
- Ordering Customer**: Five rows of text fields with icons.
- Intermediary Reim Institution**: Five rows of text fields with icons.
- Ultimate Beneficiary**: Five rows of text fields with icons.
- Beneficiary Institution for Cover**: Five rows of text fields with icons.
- Receiver Correspondence**: Text field with icon.
- Account With Institution**: Text field with icon.
- Intermediary**: Text field with icon.

The following swift message related details can be viewed in the above screen:

- Branch Code
- Account Number
- Beneficiary Institution
- Sender to Receiver Info
- Message Details
- Payment Details
- Charge Details
- Ordering Institution
- Ordering customer
- Intermediary Reim Institution
- Ultimate Beneficiary
- Beneficiary Institution for Cover
- Receiver Correspondence

- Ace with Institution
- Intermediary

Swift messages are not generated in the following situations:

- Settlement Instructions are not maintained
- Settlement Instructions are maintained but 'Payment By' for 'Pay leg' is not 'Message'.
- Settlement Instructions are maintained but the Receiver is not a Bank at the time of saving the account/manual disbursement.
- Settlement Details are changed during manual disbursement to have settlement mode other than CASA.
- The credit settlement account is a GL
- The message is manually suppressed

6.6 Viewing Installment Details

Click 'Installment' button to access the Installment query screen. The installment query screen displays the details of the installments for the account. The information displayed includes the account details, installment details and the installment summary.

You can invoke the 'Installment Query' screen by typing 'CLDINSQR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Installment Query' application window. It is divided into several sections:

- Account Details:** Includes fields for Branch Code, Account, Amount Financed, Maturity Date, Available Credit Limit, and Unbilled Utilization Amount.
- Customer Id:** A text input field.
- Alternate Account Number:** A text input field.
- Application Number:** A text input field.
- Product Code:** A text input field.
- User Defined Status:** A text input field.
- Amount Utilized:** A text input field.
- Value Date:** A text input field.
- Installment Summary:** A table with columns: Schedule Number, Schedule Due Date, Currency, Total Amount Due, Minimum Amount Due, Pay By Date, Overdue Days.
- Installment Detail:** A table with columns: Component Name, Amount Due, Settlement Currency, Schedule Status, P.
- Exit:** A button located at the bottom right corner.

The following installment details are displayed:

Account Details

The following account details are displayed:

- Branch Code: The branch code of the account maintained in the valid tables of consumer lending.
- Customer Id: Applicant's customer Id as maintained in the valid table.
- Account No: Applicant's account number, which is auto generated if it is so maintained under the branch parameter.
- Alt Account No: Alternate account number of the applicant.
- Application No: The application number of the customer.
- Amount Financed: The total loan amount as maintained in the valid table.
- Currency: Currency in which the transaction will be conducted for the account.
- Product Code: Product code of the product associated with the account, defaulted from Product definition.
- Maturity Date: Maturity date for the loan account.
- Value Date: value date for the account.
- User Defined Status: the user defined status for the account.
- Available Credit Limit: the latest available amount that is available for utilization.
- Amount Utilized: the latest utilized amount, i.e., the principal outstanding for the loan account.
- Unbilled Utilization: the sum of amount utilized after billed date. The system will display this value only for open line loans.

Installment Summary

The following installment summary details are displayed:

- Due Date: Installment due date.
- Currency: currency for the installment.
- Total Amount Due: Total amount due for the installment.
- Minimum Amount Due: This is applicable only for those installments with schedule due that are past branch date (billed installments). The system will display this value only for open line loans.
- Pay By Date: The system will display this value only for open line loans.

- Overdue Days: Number of overdue days (calendar days) for an instalment. During end of day operations, the system calculates the overdue days for all due installments and updates the field 'OD DAYS' for each installment. However, if the installment is completely paid, the system does not update the OD DAYS.

Installment Detail

The following installment details are displayed:

- Component Name: Names of all the components that make up a particular installment.
- Amount Due: Amounts due for each of the components of a particular installment.
- Status: Installment status based on the status maintained at the installment level in the product.

6.7 Viewing Events Diary Details

An 'event' may be defined as any action starting from application entry to collections. This module captures the details of events applicable to the account. The screen displays both processed and unprocessed events.

The following details are displayed here:

- Branch Code: The branch code of the account maintained in the valid tables of consumer lending.
- Account No: Applicant's account number, which is auto generated if it is so maintained under the branch parameter.
- Alt Account No: Alternate account number of the applicant.

- Application Number: The application number captured at the time of loan initiation.
- Customer Id: Applicant's customer Id.
- Product Code: Product code of the product associated with the account, defaulted from Product definition.
- Product Category: The product category availed by the customer.
- Amount Financed: The total loan amount.
- Currency: Currency in which the transaction will be conducted for the account.
- Down Payment Amount: The amount paid by the customer upfront. This is used for information only.
- Maturity Date: Maturity date for the loan account.
- Value Date: value date for the account.
- User defined status: The user defined status for the account.

6.7.1 Processed Tab

The processed events are all the events which have already taken place. This displays the details like the sequence number of the event. The date on which the event was processed, the value date, the event code, the cutoff status, and a brief description of the event. The screen also displays the details of the events according to the events selected.

The screenshot shows the 'Events Diary' application window. At the top, there are search filters for: Alternate Account Number, Customer Id, Product Code, Product Category, User Defined Status, Application Number, Value Date, Maturity Date, Amount Financed, Hamish Jiddayah Amount, and Currency. Below the filters, there are tabs for 'Processed' and 'Unprocessed'. The main area contains three tables: 'Events' with columns 'Event Code' and 'Event Description'; 'Advices' with columns 'Advice Name' and 'Document Reference'; and 'Entries' with columns 'Debit/Credit', 'Account', 'Amount Tag', 'Account Currency', 'Log Foreign Currency Amount', and 'Event Foreign Currency Amount'. There are also buttons for 'Check List And Remarks', 'Event Fields', and 'Exit'.

The following details are displayed here:

Events

- Sequence No: The sequence number for the account.
- Processed Date: The date on which the event takes place. It is the same as system date.
- Value Date: The value date of the events as maintained in the valid table that is captured during application entry.
- Code: Event code.
- Description: Description for the event occurred.

Advices

- DCN: System generated number for reference.
- Message Type: Type of advice generated for the event. This is applicable only if maintained at the product level for the particular event.

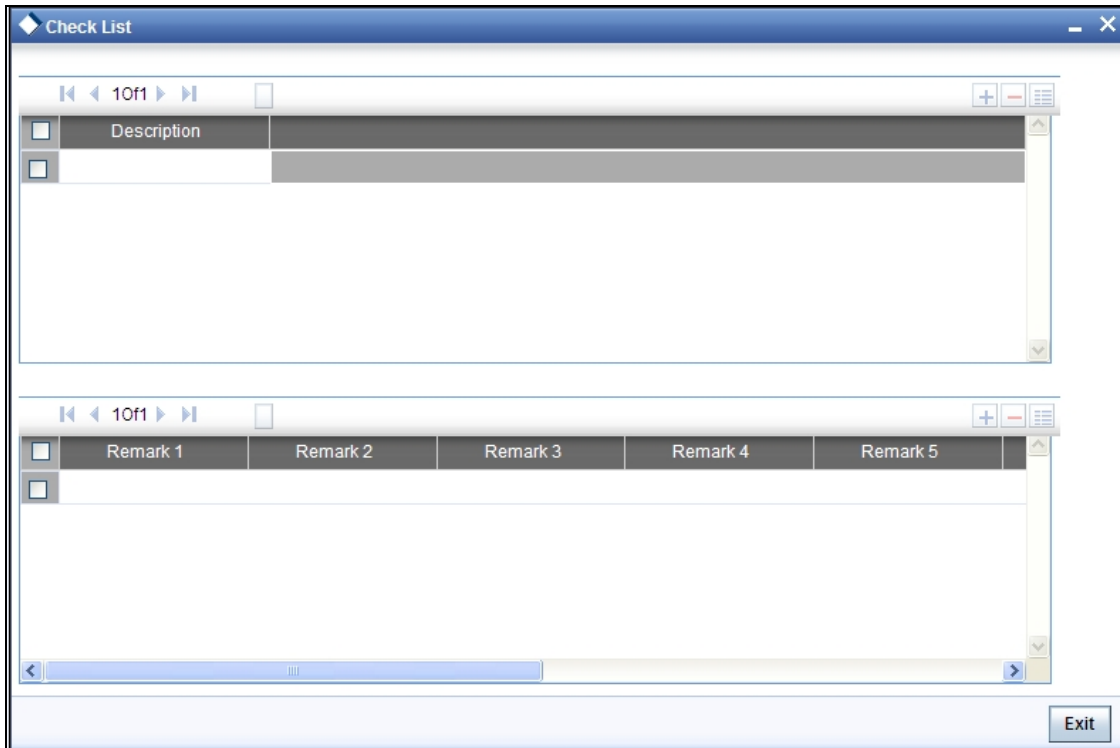
Entries

- Dr/Cr: This field indicates if the event occurring is a Debit or Credit event.
- Branch: The branch in which the event occurred. This is defaulted from the Consumer Lending module.
- Account: The number of the account affected by the event as maintained in the valid table.
- Ccy: The currency involved in the event
- Event Fcy Amt: Foreign currency amount involved with the event, if any
- Exch Rate: Exchange rate associated with the account
- Event Lcy Amt: Local currency amount involved with the event, if any. These events are maintained in the Event entries table.
- Value Date: Value date for the event as maintained in the valid date captured during the application entry.
- Trn Date: Event transaction date. It is same as the system date.
- Entry Fcy Amt: Netted entry log for the foreign currency amount. These values are stored in the daily logs.
- Entry Lcy Amt: Netted entry log for the local currency amount. These values are stored in the daily logs.
- Trn Code: Transaction code
- Amount Tag: Amount tag for the transacted amount
- Event Seq Number: Event sequence number
- Event: Event name and identifier

- GAAP indicator: Generally Accepted Accounting Principles (GAAP) applicable for the accounting entry

6.7.1.1 Viewing Event Checklist

Event checklist is a list of items that pops up when an online function is triggered.



6.7.1.2 Archiving Processed Events

You can archive processed records from the events diary using the 'Retail Lending - Bank Parameters' screen.

The screenshot shows the 'Retail Lending - Bank Parameters' window. It contains the following fields and options:

- Bank Details:** Bank Code (000), Include To Date For Interest Calculation, Split Offset Leg, Amount Blocking For Inactive Account.
- Archive Processed Records From Events Diary:** Reference Date (calendar icon), Unit (text input), Frequency (Daily dropdown).
- Purge Inactive Loan:** Tenor Days (text input), Tenor Months (text input), Tenor Years (text input).
- Cutoff Transaction:** Cutoff GL (calendar icon).
- Fields:** Input By DOC1, Authorized By, Date Time, Modification Number, Authorized, Open, Cancel button.

In this screen, you can specify the following parameters to archive processed events:

Reference Date

This is the first date on which the archival will be initiated. If this date is NULL, no archival will be done.

Frequency

This is the frequency for archival. The options in the drop down list are:

- Daily
- Monthly
- Yearly

Unit

This is a numeric value. Let us suppose you select the frequency as Daily and Unit as 5. In this case archival will be done every 5th day.

A batch process will execute the archival by end of day. However, if you do not specify the parameters, archival will not be executed.



A batch process will execute the archival by end of day. However, if you do not specify the above parameters, archival will not be executed.

6.7.2 Unprocessed Tab

The Unprocessed event screen has all the details of the overdue and the Due events for the account.

The screenshot shows the 'Events Diary' application window. At the top, there are search filters for Branch, Account Number, Alternate Account Number, Customer Id, Customer Name, Product Code, Product Category, User Defined Status, Application Number, Value Date, Maturity Date, Amount Financed, Hamish Jiddayah Amount, Currency, Page, and Total Pages. Below the filters are 'Previous' and 'Next' buttons. A tab bar shows 'Processed' and 'Unprocessed' tabs, with 'Unprocessed' selected. The main area is divided into two sections: 'Overdue Events' and 'Due Events'. Each section contains a table with columns for 'Event Code', 'Execution Date', and 'Event Description'. To the right of each table is a 'Components' sidebar with a 'Component Name' column. An 'Exit' button is located at the bottom right of the window.

The following details are displayed:

Overdue Events

An event which has crossed the due date becomes an overdue event. The number of days after the due date is used by the bank to calculate penalty for the event.

The following Overdue event details are displayed:

Overdue Events

- Code: Unique event code
- Date: Date on which event occurred

- Description: Brief event description

Components

Component name: Name of the component affected by the event.

Due Events

The date on which the event is supposed to take place is the due date of the event. In case of repayments, the customer is informed by the bank regarding the due date.

The following details are displayed:

Due Events

- Code: Unique event code.
- Date: Date on which event occurred.
- Description: Brief event description.

Components

Component name: Name of the component affected by the event.

6.7.3 Viewing Account Status

You can view the current status of an account in the 'Account Details' screen. You can invoke this screen by clicking the 'Statistics' button in the 'Account Details' screen.

The screenshot shows the 'Account Details' window with the following fields: Product, Branch Code, Account, and Alternate Account Number. Below these are two data tables. The first table has columns: Component Name, Component Currency, Expected, Overdue, Out Standing, and Advance. The second table has columns: Month, Highest Outstanding Balance, and Account Currency. Both tables are currently empty. A 'Cancel' button is located at the bottom right of the window.

When you select an account number, the system displays the following details pertaining to the current status of the account:

- Component Name
- Expected
- Overdue Amount
- Outstanding Principle
- Advance Amount
- Currency

The account creation or any other change to an account is updated the audit trail of the record. In the audit trail, the account status details are also displayed. An account can be active or uninitiated. Once it is active, it can be reversed, deleted or liquidated based on the operations on it which are displayed on the screen.

You can view the data collected for the last 12 months including the current month Highest Outstanding balance.

- Month
- Highest Outstanding Balance
- Account Currency

6.8 Querying Account Details

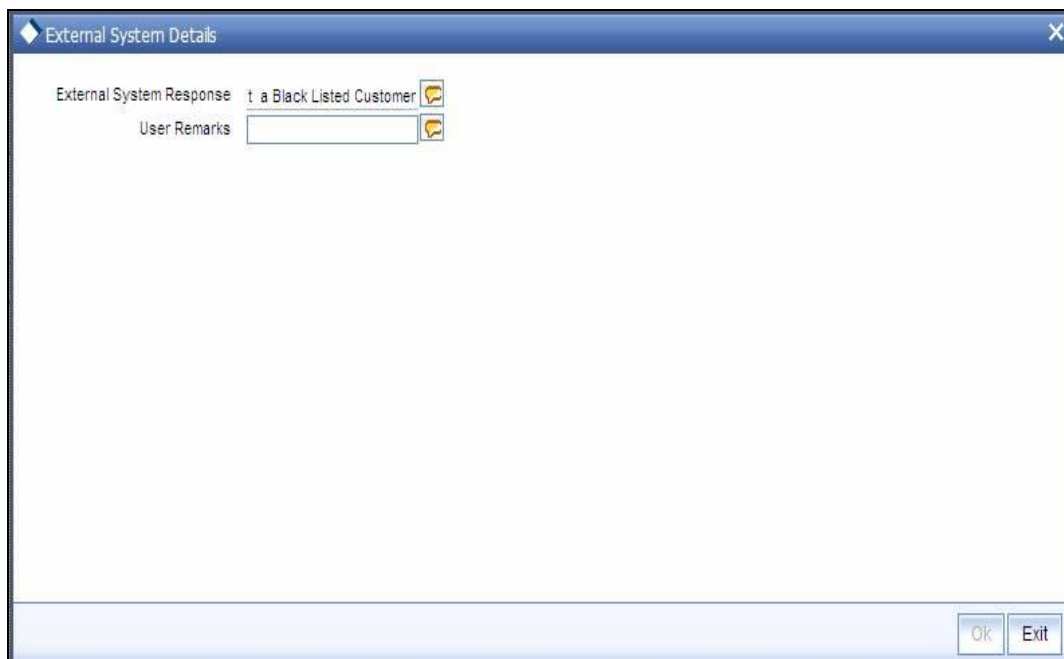
Oracle FLEXCUBE allows you to query the following account related details:

- A particular or all accounts of a customer – This is done using the ‘Customer Summary Query’ screen. The records are displayed product wise, module wise, accounting class wise and also based on external account types. You can narrow down the query by double clicking on a record and navigating to its account details.
- Accounting entries for a loan account – This is done using the ‘Customer Account Transaction Query’ screen.
- The liability details of a customer or an account or the details of a transaction involving a particular limit line – This is done using the ‘Liability Query’ screen.

6.9 Viewing OFAC Check Response

OFAC check enables the application to call an external web service to perform black list check for customer and customer accounts and give warnings appropriately while transacting with black listed customers. You can also capture your remarks before overriding the black list warning.

Click 'OFAC Check' button to view the OFAC check response in the 'External System Detail' screen. On clicking 'OFAC Check' button, system will build the request XML and call the web service. The 'External System details' screen displays the response is received from the external system and you will be also allowed to enter your remarks in this screen. The response received will also be sent to Oracle FLEXCUBE Database layer for any further interpretations of the same. This button can be made visible while carrying out the actual customization. Request building response interpretation in the database layer needs to be done as part of customization to enable this.



Here, you can view /capture the following details:

External System Response

The response from the external system regarding the black listed customer is displayed here.

User Remarks

Specify your remarks regarding the black listed customer here.

6.10 Inactive Loans

During Loan processing, it is required to capture loan details and not initiate till verification of documents, etc. This module creates a loan account in an inactive state. Inactive loans are input by a separate screen similar to the Accounts screen or by Uploads. After manual verification the account is entered as an inactive account. The account is activated once the requisite documents are received.

You can invoke this screen by typing 'CLDINADT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot displays the 'Inactive Accounts' application window. The window title is 'Inactive Accounts' and it has a 'Derived Status' field. The main menu includes 'Main', 'Account Details', 'Default', 'Check List', 'Fields', 'Components', 'Charges', 'Linkages', 'Advice', and 'Credit Score'. The 'Account Details' section contains fields for Customer Id, Customer Name, Currency 1, Amount, Net Principal, Loan to Value, Value Date, Subsidy Customer Id, Maturity Date, Exchange Rate, Payment Mode, Bill Reference, Bill Outstanding, Amount Available, and Commitment Type. The 'Maturity Type' section has radio buttons for 'Fixed' and 'Call'. The 'Promotions' section is a table with columns: Promotion Type, Promotion Id, Provision, Beneficiary, and Priority. The 'Account Statistics' section is a table with columns: Component Name, Expected, Overdue, Outstanding, Advance, and Currency. The bottom status bar includes 'MIS', 'GL Balance', 'IRR Details', 'Events', 'Installment', and 'SWIFT Message Details'. It also shows 'Input By', 'Authorized By', 'Contract Status', and an 'Authorized' checkbox, along with an 'Exit' button.

The system captures the following details and generates an inactive account:

- Loan Reference Number
- Schedule Dates
- Charges
- Installment Amounts

Modifications are allowed on inactive loans even after authorisation and there are no restrictions on inactive loans modifications. Loan details are handed off to other systems. Messages such as Loan advice or Promissory Notes can also be generated.



Note the following:

- If 'Gross Principal' check box is not checked, and debit account details are not CASA then system displays the following error message:
'Debit Payment Mode should be account with CASA account number'
- Debit Payment Mode should be account with CASA account number. On save system checks available funds in CASA account (mentioned in Debit Settlement Mode). If sufficient funds are not there in CASA account to clear tax amount, then system displays the following override message:

'Insufficient funds in CASA account to pay taxes'

6.10.1 Operations on Inactive Loans

It is possible to modify an inactive loan and save it even after authorisation. When the account is activated it will be an unauthorized account and behaves like an account directly created /uploaded into the system. It is possible to delete the same too. The user can change all loan account properties.

Click 'Active Account' button to activate the loan. This changes the funded status of the loan. Once activated, the account cannot be deleted after authorisation and cannot be unlocked after one save.

Accounting entries and limit updates are not called when the loan is inactive. Accounts queries do not display inactive accounts and Inactive accounts views do not show active accounts.

If an account is created after its value date, it behaves as a Back valued loan entry. If it is created after its maturity date, it behaves like an overdue account.

Inactive loans are created with a sequence that is different from the account mask maintained. Upon activation, the account mask is used to create a new account. Hence the account number of an activated account differs from its inactive version.

6.10.1.1 Activating Loans and Limit Earmarking

Inactive loans are activated by clicking on Activate Account button or through an upload. Upon loan activation, Limits Utilizations are updated. Accounting entries are passed for disbursement and for any upfront changes as defined in the product.

The earmarked amount field shows the total earmarking and an earmarking reference number is captured. Upon the actual loan initiation, utilization is made on the line and real entries passed.

6.10.1.2 Deleting Inactive Loan

Inactive loans can be deleted even after the authorisation of Inactive loan account. In Bank Parameters, Site specific parameters are provided to control the automatic deletion of Inactive loans. An Inactive Loan processing supports this deletion.

6.11 Loan Simulation

You can simulate loans to answer customer queries especially for new loans and pre-paid loans. The payment schedules of any type of Loan Products can be generated while negotiating with clients during the Presale stage.

6.11.1 Simulating a Loan

You can use the 'Account Simulation' screen to simulate a loan. This screen is similar to the Account Details screen. You can invoke this screen by typing 'CLDSIMDT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Click new icon in the toolbar of the screen or select 'New' from the Actions menu in the Application toolbar. The system will display 'Transaction Branch Code' screen. Here you can select the transaction branch.



The system defaults the logged-in branch by default as the transaction branch.

Transaction Branch

Select the appropriate branch from the list of branches available in the option list.

While clicking 'Ok' button, the system validates the access rights of the selected branch and function for the user. If you don't have appropriate rights on the selected branch and function, the system will display an error message. If you select a valid branch, the system updates the same as transaction branch and the transaction will be posted for this branch.

Simulation will function in exactly the same way as a regular loan input. All warnings and overrides associated with an actual contract save will come in a simulation. For e.g., if the loan results in the overdrawing of the customers loan line, then an Override is thrown up. However, no data will be stored in Oracle FLEXCUBE.

Click 'Create Active Account' button to create a loan directly from the simulator. Only users with rights to invoke Oracle FLEXCUBE loan creation function will be allowed to create loans from the simulation function. The sequence of the Loan account thus created is based on the branch level account mask maintained.

Similarly, click 'Create Inactive Account' button to actually create an inactive account based on the simulated data.

A separate Sequence number is provided to create reference numbers for Simulations. These are one time reference numbers for simulation purposes only and are not used for final loan. The User Defined Reference Number facility of Oracle FLEXCUBE is used to create Loan Simulation Sequences.

If the simulator is launched from Oracle FLEXCUBE, simulations can be run several times to examine the impact of different parameters on the loan. If the simulator is invoked from a channel, all parameters should be specified afresh for each invocation.

Loan advices can be printed from the screen based on the loan account simulated. This is allowed for loan accounts created in the system prior to their being initiated. Subsequently, advices configured through the events screen will be triggered.

6.11.2 Simulating a Commitment

You can use the 'Commitment Simulation' screen to simulate a Commitment. You can invoke this screen by typing 'CLDSCOMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



Create Active account and Create Inactive account buttons are disabled for commitment simulation.

For field explanations on all tabs except Commitment tab refer section 'Creating a Loan Account' in this chapter.

For Commitment tab details refer section 'Viewing Commitment Details' in the 'Account Creation' chapter.

6.11.3 Viewing Tax Summary Details

The system will display the tax summary details using 'Tax Summary' screen based on the following criteria:

- Enter account number to display tax summary data for a specific account number.
- Enter from date, to display tax summary data for all the loan accounts for which the tax has been charged from that Date.

- Enter Validity date, system displays all the accounts whose tax validity ends on the specified Date

You can invoke this screen by typing 'CLSTXSRY' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a web-based application window titled "Tax Summary". At the top, there are three input fields: "Account Number", "Validity Till", and "From Date". Below these fields are two search buttons: "Search" and "Advanced Search", and two other buttons: "Refresh" and "Reset". A table is displayed below the search area, with a header row containing the following columns: Account Number, Index Currency, Loan Currency, Tax Basis(UP), Tax Basis(CLP), From Date, Validity Till, and Total. The table body is currently empty. At the bottom right of the window, there is an "Exit" button.

You can enter the following details:

Account Number

Enter Account Number for which tax summary.

From Date

Enter From date for tax summary.

Validity Till

Enter To date for tax summary.

Based on the above mentioned criteria the system will display the following details:

- Account Number

- Index Currency
- Loan Currency
- Tax Basis (UF)
- Tax Basis (CLP)
- Validity Months
- From Date
- Validity Till
- Total Months Collected
- Event
- Tax Amount
- Total Tax Collected (CLP)

7. Making Manual Disbursements

7.1 Introduction

The Consumer Lending Module of Oracle FLEXCUBE supports the following modes for loan disbursements:

- Auto
- Manual

If you select the mode 'Auto', the system will automatically disburse the loans based on the disbursement schedule defined for the product.

In the manual mode, disbursement happens on demand. In this case, disbursement schedules need not be maintained for the 'PRINCIPAL' component. Also, you can collect any applicable charges related to the disbursement at the time of making the disbursement. These charges are defined at the product level.

You have to specify the disbursement mode as a preference at the time of setting up a Consumer Lending product in the system.



If you have selected the 'Group/CIF' status processing option at the branch parameters level and a manual disbursal results in a status change for the account, then the status change processing will be done only during the end-of-day batch processing. The process will work as follows:

- The current status for the account is updated in the 'Derived Status' field
- The 'User Defined Status' for the account is updated with the worst status that is available for all accounts and loans for this CIF within the branch
- The required accounting entries for the status change are posted

Refer the section titled 'Disbursement Mode preferences' in the 'Defining Product Categories and Products' chapter of this User Manual for details.

7.2 Disbursing Loan through the 'Manual' Mode

You can initiate a manual disbursement through the 'Manual disbursement' screen. You can invoke this screen by typing 'CLDMNDSB' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Manual Disbursement Details' window. At the top, there are fields for Branch (CHO), Account Number, Event Sequence Number, and Customer. To the right is the Component Name (PRINCIPAL). Below these are tabs for Disbursement Details, Charge Details, Advices, Fields, and Check List. The Disbursement Details tab is active, showing fields for Currency, Value Date, Execution Date (2016-07-26), Remarks, Total Amount, Reference Number, Amount Financed, and Amount Disbursed. A 'Default' button is present. A table below has columns: Reversed, Settlement Mode, Settlement Currency, Settlement Amount, Original Exchange Rate, Exchange Rate, and Settlement Currency Equivalent. The first row has a checked 'Reversed' checkbox. At the bottom, there are fields for 'Input By', 'Authorized By', 'Date Time', and 'Status Authorized', along with an 'Exit' button.

To begin the disbursement, click on the New icon in the toolbar of the screen or select 'New' from the Actions Menu. Enter the account number and click the 'Default' button. The system defaults the details based on product definition and the account maintained by the bank for the account. You can modify the relevant details.

The system will display 'Transaction Branch Code' screen. Here you can select the transaction branch.

The screenshot shows the 'Transaction Branch Code' window. It has a single input field for 'Transaction Branch Code' with the value '001' and a selection icon. Below the field is an 'Ok' button.

The system defaults the logged-in branch by default as the transaction branch.

Transaction Branch

Select the appropriate branch from the list of branches available in the option list.

While clicking 'Ok' button, the system validates the access rights of the selected branch and function for the user. If you don't have appropriate rights on the selected branch and function, the system will display an error message. If you select a valid branch, the system updates the same as transaction branch and the transaction will be posted for this branch.

The following information gets defaulted to the screen:

Branch Code

The code of the login/sign-on branch is displayed here. However, you can select a different branch from the option list provided. It is the branch where the loan account of the customer resides.

Account Number

Select the Loan Account of the customer to which the disbursement is made. All valid accounts are available in the option list. Select the appropriate one from this list.

Component Name

All disbursements are made towards the PRINCIPAL component. You cannot change the component.

Value Date

This is the date when the credit entry (for the disbursement amount) is posted to the Cr Settlement Bridge. The current system date is displayed here.

Execution Date

This is the date on which the disbursement is booked in the system. The current system date is displayed here. You may change the date to a date in the future before the maturity date of the loan.

Reference Number

This is auto generated and used as a reference to identify the transaction in the system.

Capture the following details in the screen:

Remarks

Capture any additional information about the disbursements, if required.

Total Amount

This displays the sum total of the amount disbursed across the various settlement modes. It gets incremented by the amount settled.

On saving the disbursement after entering all the required details in the system, the system validates the value of the amount to be disbursed against the following:

- Product transaction limit

- User Input limit

If the transaction currency and the limit currency are different, then the system converts the amount financed to limit currency and checks if the same is in excess of the product transaction limit and user input limit. If this holds true, the system indicates the same with below override/error messages:

- Number of levels required for authorizing the transaction
- Transaction amount is in excess of the input limit of the user

Disbursement Details

The following disbursement details have to be captured in the 'Disbursement Details' section of the screen:

Reversed

When you reverse a manual disbursement, the system automatically checks this option to denote that the particular settlement mode has been reversed.

For reversing a disbursement, a different event, REVD (Reverse Disbursement) is triggered.


Settlement Mode

You can make disbursements either through a single mode or by using multiple modes of settlement, depending on the customer's requirement.

The settlement details that need to be captured depend on the mode you select. The list of modes and the applicable settlement details are given below:

- CASA
 - Settlement Branch
 - Settlement Account
- Clearing
 - Upload Source
 - Instrument Number
 - Clearing Product
 - End Point
 - Routing Number
 - Clearing Bank
 - Clearing Branch
 - Sector Code

- External Account
 - Upload Source
 - Product Category
 - Clearing Bank Code
 - Clearing Branch Code
 - External Account Name
 - External Account Number
- Instrument
 - Instrument Number
 - Settlement Branch
 - Settlement Account
- Cash/Teller
 - Upload Source
 - Settlement Product

 Atleast one mode is mandatory to make a disbursement. On loan disbursement through credit note, you can capture the Beneficiary/ Dealer id as the beneficiary id and credit note number as the instrument number. The instrument number will be auto generated on selection of settlement mode as credit note on pressing 'P' button.

You need to maintain Credit Note (CNT) as a settlement mode in the 'Multimode Settlement' screen. This is used by the system internally for accounting entries.

Settlement Ccy

After specifying the settlement mode for the disbursement, select the currency in which the disbursement is to be made. The currencies allowed for the branch are available in the option list provided.

Amount Settled

Here, you have to capture the disbursement amount that is to be settled through the selected mode in the selected currency.

The 'Total Amount' gets incremented by the amount settled and displays the sum total of the amount disbursed across the various settlement modes.

Original Exchange Rate

The base or actual exchange rate between the account currency and settlement currency gets displayed here.

This information is applicable if the Mode Currency is different from the Loan Currency. The exchange rate that is defaulted from the Standard Exchange Rate Maintenance is used to convert the disbursement amount to the Loan Currency equivalent.

Refer the section titled 'Exchange Rate Preferences' in the 'Defining Product Categories and Products' chapter of this User Manual for details.

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

You can change the defaulted rate provided the change is within the variance level maintained for the underlying product.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual.

Loan Ccy Equiv

As mentioned above, if the Mode Currency and Loan Currency are different, the system calculates the Loan Currency equivalent using the exchange rate applicable for the currency pair.

External Account

Specify the name of the account number for 'External Account' mode.

External Account Number

Specify the account number for 'External Account' mode.

Negotiated Cost Rate

Specify the negotiated cost rate that should be used for foreign currency transactions between the treasury and the branch. You need to specify the rate only when the currencies involved in the transaction are different. Otherwise, it will be a normal transaction.

The system will display an override message if the negotiated rate is not within the exchange rate variance maintained at the product.

Negotiation Reference Number

Specify the reference number that should be used for negotiation of cost rate, in foreign currency transaction. If you have specified the negotiated cost rate, then you need to specify the negotiated reference number also.



Oracle FLEXCUBE books then online revaluation entries based on the difference in exchange rate between the negotiated cost rate and transaction rate.

Clearing Bank

Specify the banker's cheque issuing bank.

Clearing Branch

Specify the banker's cheque payable branch.

Instrument Number

Specify the instrument number. This is applicable if the settlement mode is 'Clearing'.

Network

Specify the clearing network when settlement mode is external account. The adjoining option list displays all the valid networks maintained in the system. You can choose the appropriate one.

External Account Type

Select the external account type from the adjoining drop-down list. The list displays the following values:

- Savings
- Current

UID Type

Specify the UID type of the customer. The adjoining option list displays all the valid UID types maintained in the system. You can choose the appropriate one.

UID Value

Specify the UID value of the customer.

Exempt GMF

Check this box to indicate the GMF applicable on disbursement amount is exempted.

Exempt Commission

Check this box to indicate the commission applicable on disbursement amount is exempted.

GMF & Commission Collection Mode

Select the collection mode for commission and GMF from the adjoining drop-down list. The list displays the following values:

- CASA
- Loan Account
- Installment

You need to select 'CASA' to indicate the commission and GMF are to be collected from an internal current or saving account.

You need to select 'Loan Account' to indicate the commission and GMF are to be deducted from disbursement amount. In this case, the settlement account will be same as credit settlement bridge that is configured at product level.

You need to select 'Installment' to indicate if the commission and GMF are to be calculated and collected later as part of first payment.

GMF & Commission Collection Branch

Specify the commission and GMF settlement account branch when commission and IVA settlement mode is 'CASA'.

GMF & Commission Collection Account

Specify the commission and GMF settlement account when commission and IVA settlement mode is 'CASA'.

Commission Amount

CASA Settlement Account

Specify the settlement account of the customer. The adjoining option list displays all the valid account numbers maintained in the system. You can choose the appropriate one.

Beneficiary Name

Specify the beneficiary name.

Beneficiary Value

Specify the beneficiary value.

The system displays the following details:

- GMF Amount
- Calculated Commission Amount
- GMF and IVA Amount



For all the disbursement mode GMF Component should have same collection mode and all Commission and IVA should have same collection mode. If mode is opted as 'CASA', the settlement CASA account should have same CASA account.

On loan creation in hold status, the system will invoke the procedure in liability system. For each disbursement mode, the system will pass the settlement amount, external bank code, external account type, external account number and external bank code to liability system. The system will calculate Commission amount, IVA amount and GMF amount and reply back to system,

On account activation/creation, account system will again invoke the procedure and liability system will calculate Commission amount, IVA amount and GMF amount and pass the accounting entries as configured.

The following SDEs are used:

- IVA_FACTOR: IVA factor is obtained from the IVA Tax Scheme maintained at Lending Bank Parameters screen. Additionally, city specific exemption will be applied on the IVA factor to get the final value that will be held by the SDE.
- GMF_FACTOR: GMF factor is obtained from the GMF Tax Scheme maintained at Lending Bank Parameters screen.
- <Component>_COLL_Mode:- Used to configure IVA and GMF Component. System will return the parent component collection mode.

Branch Profit for Non Negotiated Transactions

There can be two situations in profit calculation of non negotiated transactions:

- Transaction involves two foreign currencies
- Transaction involves a foreign currency and a local currency

Methods of profit calculation are different based on the currencies involved as discussed in the following examples.

Examples

1 - Profit Calculation of Non Negotiated Transactions Involving a Foreign Currency and a Local Currency

Consider a loan transaction. The currency of the loan is USD and that of the settlement account is AED. The loan amount is 10,000 USD and the transaction is booked at an exchange rate of 3.55.

The mid rate for the revaluation rate code for USD-AED pair is maintained as 3.60 in Currency Rates Maintenance with a buy spread of 0.05 and a sell spread of 0.05. Hence, the cost rate for the branch for this transaction will be 1 USD = 3.60 AED.

The system will pass the following accounting entries in this case.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Asset-1	USD	10,000	35500
Cr	Customer-1	AED		35500

As a result of this transaction, the branch has made a profit of 500 AED.

$$10000 \times (3.60 - 3.55) = 500$$

The loan product used for the contract needs to be configured for online revaluation. This will enable the profit of 500 AED to be booked at the time of creation of the contract itself.

The system will pass the following additional accounting entries.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Asset-1	USD		500
Cr	Income-1	AED		500

You need to maintain the Income/Expense accounts used for booking the branch profit/loss (Income-1, in the above example). As part of the product setup, you need to maintain these general ledgers for online revaluation.

2 - Profit Calculation of Non Negotiated Transactions Involving Two Foreign Currencies

Consider the case of liquidation of an import bill. The currency for the bill is GBP and that of the settlement account is USD.

The system uses USD as the through currency to derive the exchange rate of GBP against AED. The rates of exchange for GBP-USD and USD-AED pairs are maintained in the system as given below:

For GBP-USD pair -

Mid Rate - 1 GBP = 1.5651 USD

Buy Spread = 0.10

Sell Spread = 0.10.

Hence,

Buy Rate = 1.4651

Sell Rate = 1.6651

Similarly, for USD-AED pair -

Mid Rate - 1 USD = 3.60 AED

Buy Spread = 0.05

Sell Spread = 0.05

Hence,

Buy Rate = 3.55

Sell Rate = 3.65

Based on the above details, the system derives the GBP-AED rate as below:

Mid Rate - 1 GBP = 5.6344 AED

Buy Rate = 5.2011

Sell Rate = 6.0776

Consider that a bill for 1000 GBP has been liquidated. The currency of the settlement account is USD and if the transaction rate is 1 GBP = 1.6651 USD. The system will pass the following accounting entries.

Dr/Cr	Account	Ccy	FCY Amount	Exchange Rate	LCY Amount
Dr	Customer-Ac-1	USD	1,665.10	3.6499	6077.60
Cr	Nostro-1	GBP	1,000.00	6.0776	6077.60

As part of online revaluation process, the system evaluates the profit/loss as follows.

Transaction Amount x (Transaction Rate – Cost Rate of CCY1) x Revaluation Mid Rate of CCY2

$$= 1000 \times (1.6651 - 1.5651) \times 3.6 = 360 \text{ AED}$$

The system will pass the following accounting entries in this case.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Nostro-1	GBP		360
Cr	Income-1	AED		360

Branch Profit for Negotiated Transactions

There can be two situations in profit calculation of negotiated transactions:

- Transaction involves two foreign currencies
- Transaction involves a foreign currency and a local currency

Methods of profit calculation are different based on the currencies involved as discussed in the following examples.

Examples

1 - Profit Calculation of Negotiated Transactions Involving a Foreign Currency and a Local Currency

Consider a loan transaction. The currency of the loan is USD and that of the settlement account is AED. Following are the particulars:

Loan Amount = 1,000,000 USD

Mid Rate/Cost Rate - 1 USD = 3.60 AED

Deal Rate - 1 USD = 3.55 AED

Since the amount involved is huge, the customer negotiates with the branch to offer a better exchange rate of 3.60. The profit becomes zero in this case. Hence, the user negotiates with Treasury to provide a better cost rate. The Treasury will evaluate the transaction and offer a better cost rate (negotiated cost rate) of 3.65. Based on this, the branch will book the transaction at a deal rate of 3.60 with the negotiated cost rate of 3.65.

When you book the transaction, the system derives the profit from the deal based on the difference between the negotiated cost rate and the transaction rate. The system will pass the following accounting entries in this case.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Asset-1	USD	1,000,000	3,600,000
Cr	Customer-1	AED		3,600,000

During online revaluation, the system will pass the following entries.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Asset-1	USD		50,000
Cr	Income-1	AED		50,000

The local currency amount of 50,000 is derived as follows:

(Negotiated Cost Rate – Transaction Rate) x Transaction Amount

EOD Account Revaluation

The system picks up the accounting entries based on the revaluation setup for the branch. Assume that EOD account revaluation happens for the GL used in the above example that involves negotiated cost rate.

During EOD, if the Mid Rate becomes 3.70, the system will pass the following entries.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Asset-1	USD		50,000
Cr	Income-2	AED		50,000

Here, Income-2 is the Income GL maintained in the Account Revaluation Setup.

The profit generated as part of Online Revaluation will remain in Income-1 GL and the Revaluation Profit generated during EOD operations will remain in Income-2 GL.

2 - Profit Calculation of Negotiated Transactions Involving Two Foreign Currencies

Consider the liquidation of an import bill. The currency of the bill is GBP and that of the Settlement Account is USD.

The system uses USD as the through currency to derive the exchange rate of GBP against AED. The rates of exchange for GBP-USD and USD-AED pairs are maintained in the system as given below:

For GBP-USD pair -

Mid Rate - 1 GBP = 1.5651 USD

Buy Spread = 0.10

Sell Spread = 0.10

Hence,

Buy Rate = 1.4651

Sell Rate = 1.6651

Similarly, for USD-AED pair -

Mid Rate - 1 USD = 3.60 AED

Buy Spread = 0.05

Sell Spread = 0.05

Hence,

Buy Rate = 3.55

Sell Rate = 3.65

Based on the above details, the system derives the GBP-AED rate as below:

Mid Rate - 1 GBP = 5.6344 AED

Buy Rate = 5.2011

Sell Rate = 6.0776

Consider that a bill for 1000 GBP has been liquidated. The currency of the settlement account is USD and if the transaction rate is 1 GBP = 1.532 USD. The system will pass the following accounting entries.

Dr/Cr	Account	Ccy	FCY Amount	Exchange Rate	LCY Amount
Dr	Customer-Ac-1	USD	1,532.00	3.9671	6077.60
Cr	Nostro-1	GBP	1,000.00	6.0776	6077.60

The Negotiated Cost Rate of the transaction is 1.525.

As part of online revaluation process, the system evaluates the profit/loss as follows.

Transaction Amount x (Transaction Rate – Negotiated Cost Rate) x Revaluation Mid Rate of CCY2

= 1000 x (1.532 – 1.525) x 3.60 = 25.20 AED

The system will pass the following accounting entries in this case.

Dr/Cr	Account	Ccy	FCY Amount	LCY Amount
Dr	Nostro-1	GBP		25.20
Cr	Income-1	AED		25.20

7.2.1 Verifying Check List Items

To every online event, you can associate check list items through the 'Event Checklist' screen. To view the check list items associated with the 'Disbursement' event (DSBR), click on the 'Check List & Remarks' button.

The screenshot shows a software window titled "Manual Disbursement Details". At the top, there are input fields for "Branch * 000", "Account Number *", "Event Sequence Number *", and "Customer". A "Component Name" dropdown menu is set to "PRINCIPAL". Below these fields is a tabbed interface with "Disbursement Details", "Charge Details", "Advices", "Fields", and "Check List" (which is the active tab). The "Check List Details" section contains a table with two columns: "Description" and "Checked". The table is currently empty. Below the table is a "Remarks" section with several text input boxes. At the bottom of the window, there are fields for "Input By", "Date Time", "Status", and "Authorized By", along with an "Exit" button.

This screen displays the check list items for DSBR. All check list items have to be verified for successful disbursement of the loan. To do this, check the 'Verified' box against each check list item.

You may also capture any additional information/remarks, if required.

Click 'OK' button to Save and return to the 'Manual disbursement' screen.

7.2.2 Capturing Values for event level UDFs

You can enter values for the UDFs that you have associated with the DSBR event in the 'Account Event UDF' screen. To invoke this screen, click 'Event Fields' button in the 'Manual Disbursement' screen.

The screenshot shows a window titled "Manual Disbursement Details". At the top, there are input fields for "Branch * 000", "Account Number *", "Event Sequence Number *", and "Customer". A "Component Name" field contains the value "PRINCIPAL". Below these fields is a tabbed interface with four tabs: "Disbursement Details", "Charge Details", "Advices", and "Fields" (which is currently selected), and "Check List". Under the "Fields" tab, there is a section labeled "Character Fields" containing a grid of 12 empty text input boxes. At the bottom of the window, there is a section for "SWIFT Message Details" and "Liquidate Loans" with fields for "Input By", "Date Time", "Status", and "Authorized By". An "Exit" button is located in the bottom right corner.

The system allows you to enter different values for the same UDF for events that gets repeated for the same loan account. For instance, if you have multiple disbursements for a Loan Account, you can capture different values for UDFs for different disbursements.

Click Exit button to exit and return to the 'Manual disbursement' screen.

7.2.3 Viewing Charge details associated with Event

When making a manual disbursement, you can apply the charges applicable for the event. To do this, click 'Charges' button and invoke the 'Manual disbursement – Charges' screen.

The screenshot shows the 'Manual Disbursement Details' window. At the top, there are input fields for 'Branch * 000', 'Account Number *', 'Event Sequence Number *', and 'Customer'. A 'Component Name' dropdown menu is set to 'PRINCIPAL'. Below these fields is a tabbed interface with 'Disbursement Details', 'Charge Details', 'Advices', 'Fields', and 'Check List'. The 'Charge Details' tab is selected, showing a table with the following columns: Component Name, Settlement Mode, Settlement Currency, Settlement Amount, Exchange Rate, Settlement Currency Equivalent, and Settlement Branch. Below the table, there are fields for 'Input By', 'Date Time', 'Status', 'Authorized By', and 'Date Time', along with an 'Exit' button.

Specify the following details in this screen:

Component Name

Select the charge component from the option list provided. This list displays the components of type 'Charge' that were associated with the event at the time of defining the product.

Settle Mode

You can use multiple modes of settlement for charge settlement also. The list of modes applicable is same as the one allowed for loan disbursement.

Settle Ccy

After specifying the settlement mode, select the currency in which the charge is to be collected. The currencies allowed for the branch are available in the option list provided.

Amount Settled

If a formula is maintained for charge calculation at the product level, the system calculates the charge on the amount being disbursed using the formula. The same is then displayed in the here.

Exch Rate and Loan Ccy Equiv

This information is applicable if the Mode Currency is different from the Loan Currency. The exchange rate that is defaulted from the Standard Exchange Rate Maintenance is used to convert the charge amount to the Loan Currency equivalent.

7.2.4 Capturing the Advice related Details

You can view the advices defaulted which also includes the Payment Message in the 'Advices' screen. To invoke this screen, click 'Advices' button on the 'Manual Disbursement' screen. You can also choose to suppress the messages as required .

You can opt to suppress the Payment Message defaulted in case you do not need a credit through swift message .

The deafulted details can be overridden at this stage and if the settlement mode is changed to anything other than CASA, the swift message is automatically suppressed.

The screenshot displays the 'Manual Disbursement Details' window. At the top, there are input fields for 'Branch * 000', 'Account Number *', 'Event Sequence Number *', and 'Customer'. A 'Component Name' dropdown is set to 'PRINCIPAL'. Below these fields are tabs for 'Disbursement Details', 'Charge Details', 'Advices', 'Fields', and 'Check List'. The 'Advices' tab is active, showing a table with columns for 'Message Type', 'Suppress', 'Priority', and 'View Message'. Below the table are sections for 'Supplier Advice' and 'SWIFT Message Details'. The 'SWIFT Message Details' section includes fields for 'Input By', 'Date Time', 'Status', and 'Authorized By', with an 'Exit' button at the bottom right.

System automatically suppresses the payment message under the following conditions:

- If the Principal Credit Settlement account is changed to a GL or if the receiver in Swift Msg Details button is not valid to receive the message i.e, if the Customer Type of the Receiver party is not a Bank
- If the settlement mode for PRINCIPAL component is changed to anything other than CASA

If the Transfer Type is chosen as blank i.e, neither Customer Transfer nor Bank Transfer and if the Receiver is a bank and the credit settlement account is a current account then the PAYMENT_MESSAGE becomes CREDIT_ADVICE by Swift(MT910).

7.2.5 Viewing the Swift Message Details

The swift message details are picked up from the Settlement Instructions maintenance and are displayed in the 'Swift' screen. To invoke this screen, click 'Swift' button on the 'Manual Disbursement' screen..

The screenshot shows a window titled "SWIFT Message Details" with a blue header bar. The window is divided into several sections, each with a title bar and a list of input fields:

- Charge Details:** Includes a "Transfer Type" dropdown menu, "Remitter - All Charges" with radio buttons for "Charges", "Charges", and "Remitter1", and "Our Correspondent" and "Receiver" text fields.
- Sender to Receiver Information:** A vertical list of 6 numbered text input fields.
- Message Details:** Includes a "Cover Required" checkbox and a vertical list of 4 numbered text input fields.
- Beneficiary Institution:** A vertical list of 5 numbered text input fields.
- Ordering Institution:** A vertical list of 5 numbered text input fields.
- Ordering Customer:** A vertical list of 5 numbered text input fields.
- Intermediary Institution:** A vertical list of 5 numbered text input fields.
- Ultimate Beneficiary:** A vertical list of 5 numbered text input fields.
- Beneficiary Institution For Cover:** A vertical list of 5 numbered text input fields.
- Account With Institution:** A vertical list of 5 numbered text input fields.
- Receiver Correspondent:** A vertical list of 5 numbered text input fields.
- Intermediary:** A vertical list of 5 numbered text input fields.

At the bottom right of the window, there are "Ok" and "Exit" buttons.

For more details on Swift message related details refer section 'Capturing Swift Message Details' in the chapter 'Capturing Additional Details for a Loan' in this User Manual.

7.2.6 Liquidating Loans

You can view all the loans that have been attached to this loan i.e., the loans which will be liquidated on the disbursement using the first installment of the current loan in the 'Liquidate Loans Details' screen. You can access this screen by clicking the 'Liquidate Loans' button in the 'Manual Disbursement' screen.

The screenshot shows a software window titled "Liquidate Loan Details". At the top, there are four input fields: "Branch * 000", "Account *", "Currency", and "Customer Id". Below these fields is a table with the following columns: "Branch", "Account Number", and "Liquidation Amount". The table contains one row with a checkmark in the first column. At the bottom of the window are "Ok" and "Cancel" buttons.

You need to specify the following details:

Branch

Specify the branch in which the loan is being liquidated.

Currency

Specify the currency in which the loan is to be liquidated.

Account

Specify the account number for which the loan is to be liquidated.

Customer ID

Specify the customer Id of the loan holder.

Liquidate Loan Details

Branch

Specify the loan liquidation branch from the adjoining option list.

Account Number

Specify the account number to which the loan is to be liquidated.

To liquidate the attached loans, click 'Save' in the 'Manual Disbursement' screen. The system compares the total outstanding loan amount to be liquidated (sum of all loan amounts chosen) and the disbursement amount of the current loan:

- If the disbursement amount is greater than the total liquidated amount, the system liquidates the attached loans and credits the excess in the settlement mode chosen by the customer in the 'Manual Disbursement' screen.
- If the disbursement amount is less than or equal to the total liquidated amount, the system displays an error message "Disbursed Amount less than/equal to Liquidation amount" and stops the disbursement.



Note the following:

- The disbursed amount will be determined after deducting any tax or charges that may be applicable.
- You need to maintain Loan Account (LAC) as a settlement mode in the 'Multimode Settlement' screen. This is used by the system internally for accounting entries.
- During manual disbursement, you can modify the liquidate loan details captured during account creation and enter new details.
- If there is an increase in the principal, you can capture the liquidate loan details during value dated amendment.

7.2.7 Confirming Advice Print

Once a transaction has been authorized, the system shifts the focus to 'Advices' tab. Select the message that you wish to view or print and click 'View' button. The system displays the full message in a new window. Verify the message and click 'Print' to print it.

7.3 Authorizing a Manual Disbursement

After entering the details for manual disbursement in the 'Manual Disbursement Input' screen click Save icon to save the details.

For revolving loans, the sum of amount utilized and the amount to be disbursed should not be greater than amount financed. In case of open line loans, back value dated disbursements will be supported only for the current billing period.

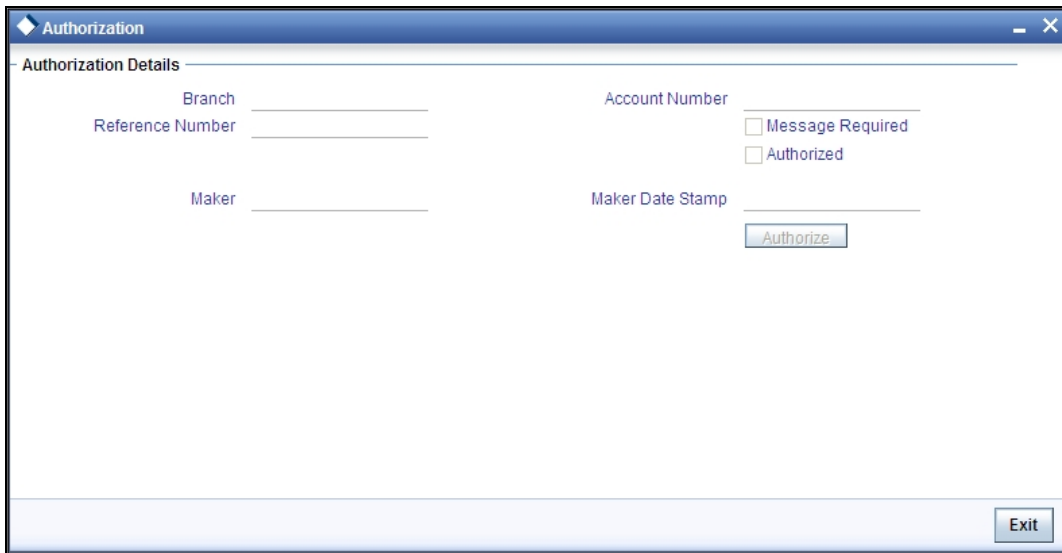
For instance, the details indicated in the following table will result in error only for non-revolving loans:

Amount financed	Amount disbursed	Amount utilized	Amount to be disbursed
1,00,000 INR	75,000 INR	50,000 INR	30,000 INR

The above validations will happen during the utilization through the other channels wherein the CL accounts are available for debit.

In case of open line loans, the system will support the back value dated disbursements only for the current billing period.

To authorize the manual disbursement, click Authorize icon on the Application toolbar. The account authorization screen is displayed.



The screenshot shows a window titled "Authorization" with a blue header bar. Below the header, there is a section titled "Authorization Details". The form contains several input fields: "Branch", "Reference Number", "Maker", "Account Number", and "Maker Date Stamp". To the right of the "Account Number" field, there are two checkboxes: "Message Required" and "Authorized". At the bottom right of the form area, there is an "Authorize" button. In the bottom right corner of the window, there is an "Exit" button.

The Branch and Account number is defaulted and the Xref number is generated by the system. The following detail needs to be selected as required:

Message Generation

Check this box if you want swift messages to be generated either for the customer transfer or the bank transfer along with a cover. The generated message can be viewed in the messages browser. Even if the box is left unchecked you can go to messages browser at a later point of time and generate the message.

If the message generation fails for some reason, the account is authorized and you have to go to the browser to manually generate the swift message.

All other advices related to DSBR event are not generated at this point and you need to go to the message browser to do the same.

After the swift message has been generated, if the loan account or the manual disbursement is reversed, no message is sent from CL.



You cannot authorize a transaction in the following cases:

- the contract has multilevel of authorization pending, the same will be done using the 'Multilevel Authorization Detailed' screen

- the level of authorization is greater than or equal to 'N'
- the 'Nth' or the final level of the users authorisation limit is less than the difference between amount financed and sum of the limits of all the users involved in authorizing a transaction, this case holds good when the 'Cumulative' field is checked in the 'Product Transaction Limits Maintenance' screen
- the transaction amount is greater than the authoriser's authorisation limit if the 'Cumulative' field is unchecked in the 'Product Transaction Limits Maintenance' screen

7.3.1 Accounting Entries

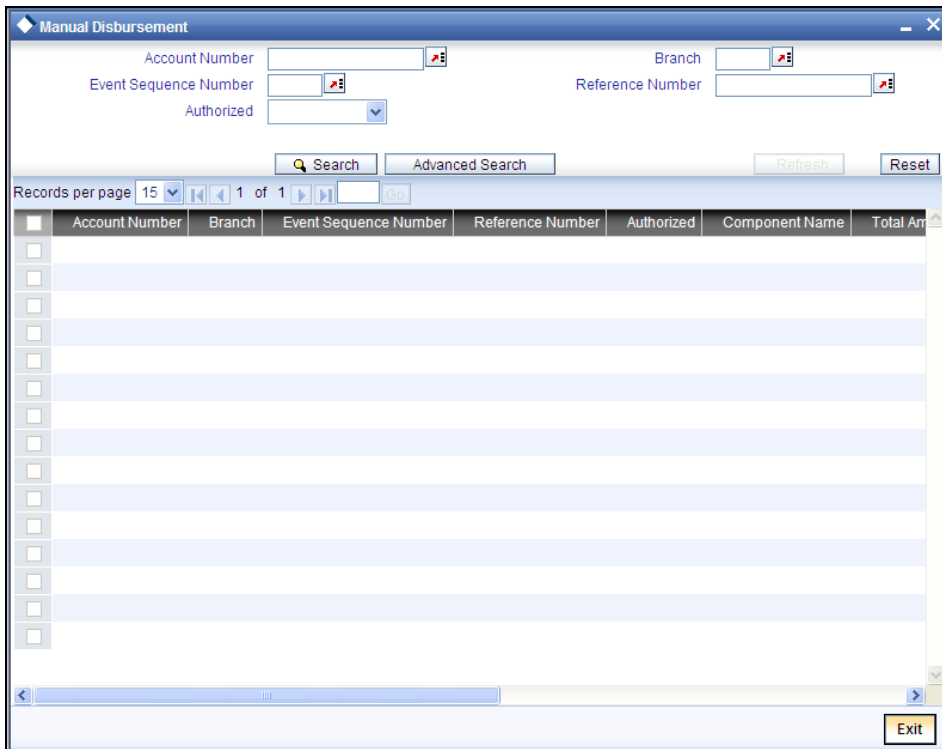
During the disbursement event, the Loan Account is debited while the credit entry will depend on the settlement mode(s) selected for disbursal.

The entries will appear as follows:

Accounting Role	Amount Tag	Cr/Dr
LOAN_ACCOUNT	PRINCIPAL	Dr
CR_SETTL_BRIDGE	PRINCIPAL	Cr

7.4 Viewing Manual Disbursement

You can view the LC contract using 'Manual disbursement' screen. To invoke this screen, type 'CLSMNDSB' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.



You can click 'Search' button to view all the pending functions. However, you can to filter your search based on any of the following criteria:

Account Number

Select the account number from the option list.

Event Sequence Number

Select the event sequence number from the option list.

Authorized

Select the authorization status of the contract from the drop-down list.

Branch

Select the branch code for which you want to check the contract from the option list.

Reference Number

Select the reference number from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Account Number
- Branch
- Event Sequence Number
- Reference Number
- Authorized
- Component Name
- Total Amount
- Remarks
- Value Date
- Execution Date
- Input By
- Date Time
- Checker ID
- Date Time
- Status

Click 'Advanced Search' to display the screen below:

The screenshot shows the 'Advanced Search' dialog box. It features a list of search fields on the left, including Account Number, Branch, Event Sequence Number, Reference Number, Authorized, Component Name, Total Amount, Remarks, Value Date, Execution Date, Input By, Date Time, Checker Id, Date Time, and Status. The main area contains sections for 'Operator', 'Value', and 'To', along with 'Query' and 'Order By' options. The 'Query' section includes buttons for 'And', 'Or', 'Accept', and 'Clear Query'. The 'Order By' section includes a dropdown menu set to 'Ascending', an 'Accept' button, and a 'Clear Query' button. At the bottom are 'Ok' and 'Cancel' buttons.

You can query a contract based on any of the following details:

- Account Number
- Branch
- Event Sequence Number
- Reference Number
- Authorized
- Component Name
- Total Amount
- Remarks
- Value Date
- Execution Date
- Input By
- Date Time
- Checker ID
- Date Time
- Status

7.5 Maintaining Massive Disbursement Details

You can perform a massive disbursement using the 'Agreement Massive Disbursement Input' screen. You can invoke this screen by typing 'CLDMSDSB' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The disbursement of loan is done in accordance to the disbursement settlement instruction provided during account creation. Additionally, there is an option to settle the amount that is lying in credit settlement ridge. This settlement is allowed in multiple modes.

The screenshot shows the 'Agreement Massive Disbursement Input' window. It features the following sections:

- Top Section:** Fields for 'Agreement ID *', 'Loan Value Date *', 'Reference Number', and a 'Query' button.
- Loan Account Section:** A table with columns 'Account', 'Disburse', and 'Amount Financed'. Above the table are navigation controls (1 of 1) and a 'Go' button.
- Dealer Settlement Details Section:** A collection of input fields including 'Settlement Mode', 'Internal Reference', 'Settlement Currency', 'Settlement Amount', 'Settlement Branch', 'Settlement Account', 'CASA Settlement Account', 'Product Category', 'External Account', 'External Account Number', 'External Account Type', 'Network', 'UID Type', 'UID Value', and 'Beneficiary Name'. There is also an 'Exempt GMF' checkbox.
- Right Section:** Fields for 'GMF/Commission Collection Mode' (set to 'CASA'), 'Collection Branch', 'Collection Account', 'Amount Disbursed', 'Total Disbursement Amount', and 'Settlement Amount Pending Allocation'. Below these are fields for 'Clearing Bank', 'Instrument Number', 'Commission Amount', 'Exempt Commission', 'GMF Amount', 'Calculated Commission Amount', and 'GMF and IVA Amount'.
- Bottom Section:** A status bar with fields for 'Maker', 'Checker', 'Mod Number', 'Authorization Status', 'Date Time', and 'Record Status'. A 'Cancel' button is positioned in the bottom right.

Specify the following detail:

Agreement Id

Specify the agreement ID. The adjoining option list displays all the valid agreement IDs maintained in the system. You can choose the appropriate one.

Loan Value Date

Select the loan value date from the adjoining calendar.

Click the 'Query' button. The system fetches all the loan account numbers which are associated with the 'Agreement ID' and 'Loan Value Date' combination, and are pending for disbursement.

The system displays the following detail:

- Reference Number

The system also displays the following details:

- Account – The system displays the loan account numbers attached with the agreement.
- Disburse – By default, this box is checked for all accounts. You can uncheck the box to indicate as to which loan accounts are not marked for disbursement.

Amount Financed – The system displays the financed amount for the Loan account.

GMF/Commission Collection Mode

The value is defaulted from the account level, but this can be modified. Select the settlement mode for commission and GMF from the adjoining drop-down list. The list displays the following values:

- CASA
- Loan Account

You need to select 'CASA' to indicate the commission and GMF are to be collected from an internal current or saving account.

You need to select 'Loan Account' to indicate the commission and GMF are to be deducted from disbursement amount. In this case, the settlement account will be same as credit settlement bridge that is configured at product level.

Collection Branch

Specify the collection branch when settlement mode is 'CASA'. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Collection Account

Specify the collection account when settlement mode is 'CASA'. The adjoining option list displays all the valid accounts maintained in the system for the selected collection branch. You can choose the appropriate one.

The system displays the following details:

- Total Disbursement Amount – The system displays the sum disbursement amount of all the loans.

- Amount Disbursed – The system displays the sum disbursement amount of the loans marked for disbursement.
- Settlement Amount Pending Allocation – The system displays the pending settlement amount to disburse according to the settlement instructions input. This field initially displays the same value as the 'Amount Disbursed' field.



After you specify value in the Dealer Settlement Details section, the following will be debited and displayed in the 'Settlement Amount Pending Allocation' field.

- Total of GMF, Commission + IVA + GMF if any for the channel and to be collected from Disbursement,
- Amount allocated against the Settlement.

Dealer Settlement Details

Specify the following dealer settlement details:

Settlement Mode

Select the settlement mode from the adjoining drop-down list. The list displays the following values:

- CASA
- External Account
- Instrument
- Cash/Teller

Internal Reference

Specify the internal reference number.

Settlement Currency

Specify the settlement currency. The adjoining option list displays all the valid currency codes maintained in the system. You can choose the appropriate one.

Settlement Amount

Specify the settlement amount.

Settlement Branch

Specify the settlement branch. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Settlement Account

Specify the settlement account. The adjoining option list displays all the valid account numbers maintained in the system. You can choose the appropriate one.

CASA Settlement Account

Specify the settlement account of the customer. The adjoining option list displays all the valid account numbers maintained in the system. You can choose the appropriate one.

Product Category

Specify the product category. The adjoining option list displays all the valid product categories maintained in the system. You can choose the appropriate one.

External Account

Specify the external account.

External Account Number

Specify the external account number.

External Account Type

Select the external account type from the adjoining drop-down list. The list displays the following values:

- Savings
- Current

Network

Specify the network. The adjoining option list displays all the valid networks maintained in the system. You can choose the appropriate one.

UID Type

Specify the UID type. The adjoining option list displays all the valid UID types maintained in the system. You can choose the appropriate one.

UID Value

Specify the UID value.

Beneficiary Name

Specify the beneficiary name.

Exempt GMF

Check this box for exemption from GMF.

Clearing Bank

Specify the clearing bank. The adjoining option list displays all the valid clearing branch codes maintained in the system. You can choose the appropriate one.

Instrument Number

Specify the instrument number.

Commission Amount

Specify the commission amount

Exempt Commission

Check this box for exemption from commission.

The system displays the following details:

- GMF Amount
- Calculated Commission Amount
- GMF and IVA Amount

Bulk disbursement of loans wherein the disbursement details are provided, will not have dealer settlement instructions. But, bulk disbursement of loans wherein the disbursement details are not provided, will have dealer settlement instructions to transfer the disbursement amount of the loans to dealer's account.

Loans with disbursement settlement modes defined cannot be disbursed with loans without disbursement settlement modes defined at loan account level.

You can perform the disbursement operation from branches other than account branch.

- Record Status
- Mod Number
- Once Authorized
- Date time
- Maker
- Checker

Double click the record to invoke the detailed screen.

7.7 Netting of Disbursement Amount

Balance movement in credit Settlement Bridge is tracked during disbursement operation. In multimode settlement, the system obtains the amount that is in credit Settlement Bridge. This amount is used to conclude mode specific settlement amount that is disbursed to the customer. This is done in the following manner:

If disbursement amount for a settlement mode is specified by the customer, the same amount will be retained as disbursement amount and balance lying in credit Settlement Bridge will be reduced to that extent. Settlement mode specific commission and GMF is calculated on disbursement amount. Additionally, if settlement mode specific commission, IVA and GMF are to be collected from loan account, the same will be deducted from credit Settlement Bridge.

If disbursement amount for a settlement mode is not specified by the customer, the system will first deduct settlement mode specific commission, IVA and GMF that are to be collected from loan account, if any, from credit Settlement Bridge. Balance in the credit Settlement Bridge is the final settlement amount. The disbursement amount for a settlement mode can have null value if it is a single mode disbursement or if it is the last settlement mode in a multimode disbursement operation.

Disbursement operation will display an error message if balance lying in credit Settlement Bridge is not equal to zero after processing last settlement instruction. If the last disbursement mode amount is zero or negative, the system will reject the disbursement with appropriate error codes for zero and negative.

8. Operations

8.1 Introduction

This chapter explains the various operations that can be performed on a loan account; the most prominent being payments and amendments, funding, status change, simulation of payments, rollover etc.

8.2 Loan Payments

The 'CL Payment' screen allows you to make payments towards a loan. CL module supports Multi Mode settlements. The various payment modes allowed are Cash/Teller, CASA, Clearing, Electronic Pay Order, Credit Card, Debit Card, External Account, Internal Check and Instrument. Multi mode settlement mechanism facilitates payment of loan installment.

Payment can be against any or all or a combination of the components due. Prepayments will attract a pre-payment penalty to be charged. The payment computed by the system can be overridden by the amount negotiated by the customer and a subsidy is captured as amount waived. The amount accepted is either waived or capitalized. Depending on the mode selected, additional payment details such as clearing house details, settlement products to be used if the settlement is through another product of Oracle FLEXCUBE, etc are captured.

Penalties on Payment

Prepayment as well as delayed payment of loan can attract penalties.

- Prepayment Penalty - The customer can choose to prepay the loan amount, either partly or as a whole before the due date. This may attract a Prepayment Penalty.
- Penalty on delayed payment - In case a customer defaults in paying back the loan amount in time, then the amount becomes an over due and a penalty may be applicable. However, the customer is allowed to negotiate with the bank in order to subsidize the amounts due. Once the bank and the customer decide upon a mutually agreeable amount, the actual payable amount is replaced by this new amount and will be used in lieu of the original amount due.

If a loan payment results in a status change for the account, the system will update the current status for the account in the 'Derived Status' field. During end-of-day batch processing, it will update the 'User Defined Status' for the account with the worst status that is available for all accounts and loans for this CIF and post the required accounting entries for the change.

If an excess payment is received then the system will identify the service account mapped for the principal component of the loan account and credit the excess amount.

If there is repayment during one of the schedules, then based on the specified VAMI re-computation option, the system either modifies the EMI, tenor, or the final bullet/balloon payment.



If there no change in the EMI or the tenor, then the 'Balloon Payment' option should be chosen.

On auto liquidation for Open Line Loans, any amount available in the service account will be liquidated first and remaining amount will be taken from settlement account.

The 'CL Payment' screen captures payment details such as Payment Mode, Amount Settled, Settlement Currency and Exchange Rate. The payment is against any of the loan components such as principal, interest, late fee etc.

You can invoke the 'CL Payment' screen by typing 'CLDPYMNT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

To make a payment, click New icon in the toolbar and then capture the 'Account Number', 'Value Date' and 'Limit Date'. Click 'Populate Due' button to populate the due amounts component-wise against the account. After this, you can enter the payment details. Alternatively, you can also click 'Allocate' button to allocate the settlement amounts across the various components based on the 'Schedule Order' and 'Liquidation Order'.

In case of manual liquidations of Open Line Loans, on click of 'Populate Due' button, the system will default a settlement row with settlement account as service account maintained and settlement amount as the amount available in the service account and settlement currency is the service account currency.

The following details are captured here:

Branch Code

Select the branch code of the account towards which the payment is made, from the adjoining option list. A list of branch codes is displayed. Click on a value to select it.

Account Number

Select the customer's account number by clicking the adjoining option list. A list of values is displayed. Click on a value to select it.

Event Sequence Number

The system displays the event sequence number of the payment in the account's life history.

8.2.1 Payment Details Tab

Value date

Enter the date on which the payment affects the account balance in this field.



The value date can be a Back Valued, Current or Future Date.

Execution Date

This is the application date on which the payment is entered into the system. If the Execution date is in the future, the payment is tanked and released on the Future Value date of the payment; else, it is applied immediately as of the value date of the payment.



By default it is the current system date, but can be modified.

Limit Date

Select the limit date from the available schedules that can be included as amount due by clicking the adjoining option list. A list of schedule due dates for the account is displayed. Click on a value to select it.



This option is allowed only if the installment option is selected.

Total Principal Outstanding

Total Principal Outstanding inclusive of the compounded interest or penalty is defaulted here.

Collection Agent Identification

The collection agent assigned to the loan gets defaulted here during liquidation. If the collection agent eligible for the fees is different, you can change the agent name here.



The collection agent assigned through the Assignment screen is still valid and the collection agent assigned here is effective only for this particular liquidation. After Authorization the details of the liquidation is passed into Collections module routines for the calculation of Collection Agent Fee.

Customer ID

The system displays the Customer No of the account in this field.

Main Interest Rate

The rate value for the rate code maintained against the main interest UDE chosen is displayed here.

Installment(s)

If you select this option then the amount due includes schedules till limit date. If not then the amount due is the same as on the value date.

You cannot check this box if 'Settle Principal Expected' box is checked.

These two options are mutually exclusive.

External Reference Number

The system will display a unique sequence number.

Reversal Reason Code

The system will display the reversal reason code.

Settle Principal Expected

Check this box to settle principal expected in the following manner:

- Payment is treated as a pre-payment effective from the payment value date.
- Overdue schedules are not considered.
- Settlement amount is paid towards principal expected only.
- Payment schedules are rebuilt as per recomputation basis preference which will reduce installment.



During ICR Payments, Settle Principal Expected will always be checked. ICR payment is a subsidy payment applied on liability loan. Similar pre-payment is manually applied on asset loan. Payment on the liability loan can be back dated, during the payment system will recalculate the interest and pass the reversal accounting for extra accrued amount

Prepayment of Amortized Loan

The following details are captured here:

Recomputation Basis

By default, the system displays 'One Installment' as the recomputation basis, but this can be modified. Select the recomputation basis from the adjoining drop-down list. The list displays the following values:

- One Installment
- Next Installment
- Change Installment
- Reduce Tenor

Recomputation Effective From

You can choose the date on which the prepayment becomes effective. You can start the prepayment on the Value Date or Next Installment.

Close Revolving Loans

Check this box to close a revolving loan account.

During the payment, the system will trigger the 'CLOS' event and close the account if the following conditions are true:

- Outstanding balance of the account is zero
- 'Close revolving loan' box is checked



Revolving loans will support excess payment even if negative residue amount for a currency is not provided at the product level.

Payment By Guarantor

Check this box to indicate that the payment is availed from National Collateral Fund.

Recovery Required

Check this box to indicate that the National Collateral Fund payment is to be recovered in future payments.

If this box is checked, the system will calculate recovery amount based on the payment amount and FNG coverage percentage. This amount will be due against the adhoc charge component with category 'Guarantor Recovery'.

Payment By Unemployment Insurer

Check this box to indicate that the payment is being originated from the unemployment insurer.

Refund Discounted Interest

Check this box to indicate that the refund of discounted component is to be credited to credit settlement bridge. If this box is not checked, refund amounts will be added to refund settlement mode.

Payment Details

The following details are captured here:

Reversed

This option indicates that the settlement is reversed.



This option is disabled in the new payment mode.

Payment Mode

Specify the mode of loan payment by clicking the adjoining drop-down list. A list of payment modes is displayed. Click on a value to select it.

- CASA
- Cash/Teller
- Clearing,
- Instrument
- Electronic Pay Order
- Credit Card
- Debit Card
- External Account
- Internal Cheque
- External Cheque
- Next Installment
- Refund Interest
- Refund Life Insurance



If the payment mode 'ECK' is chosen, then system will not create the outward clearing contract but will store the cheque details.

Settlement Currency

Select the currency used for the specific payment mode by clicking the adjoining option list. A list of currencies is displayed. Click on a value to select it.

Settlement Amount

Specify the amount paid through the specified mode of payment in terms of the settlement currency in this field.



The amount should be a valid amount and should not exceed the total amounts due; else it is treated as a prepayment.

Loan Currency Equivalent

The system displays the amount settled in terms of the local currency in this field.

Original Exchange Rate

The base or actual exchange rate between the account currency and settlement currency gets displayed here.

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

You can change the defaulted rate provided the change is within the variance level maintained for the underlying product.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual

Settlement Order

Each settlement is apportioned against a component due based on the Liquidation order. The order in which the settlements are picked is ordinal as entered in the screen. Click 'Set Comp' button to view/change the component settlement details in the 'Component Details' screen.

For more details on the 'Component Details' screen refer section titled 'Viewing Component Settlement Details' in this chapter.

During payments, based on the Withholding tax percent specified in the 'Withholding Tax Pct' in the 'Customer Maintenance' screen, system internally calculates the applicable tax portion based on the Settlement Amount and passes the accounting entries for the tax.

For more details on setting up Withholding tax percentage refer 'Maintaining Customer Basic Record' section of 'Maintaining Customer Information Files' chapter of Core Entity User Manual

During MLIQ event, you need to input the Settlement Amount after discounting the tax amount and the system allocates the amount to Interest component after adding the tax amount. In addition, system also tops up the Settlement Amount by the total tax amount applicable.

During ALIQ event, the amount available in the customer's settlement account is taken up as the basis for allocation. In case the settlement account does not have full funds, the amount present is taken up as customer portion and the relevant tax portion is added up on top of that.

The amount tag which is used to pass accounting entries corresponding to the tax portion for MLIQ and ALIQ events is <Component name>_WHLD. For eg. MAIN_INT_WHLD

Instrument Number

Specify the external cheque number.

External Account Number

Specify the external bank account number.

Clearing Bank

Specify the banker's cheque issuing bank name.

Account Description

In this field, the description of the settlement account is displayed by the system, when you specify or select the Customer Number or Customer Account from the LOV. If the account number keyed in has only one value matching it in the LOV, then system will not open the LOV on tab out and the description of the settlement account will be automatically displayed.

Negotiated Cost Rate

Specify the negotiated cost rate that should be used for foreign currency transactions between the treasury and the branch. You need to specify the rate only when the currencies involved in the transaction are different. Otherwise, it will be a normal transaction.

The system will display an override message if the negotiated rate is not within the exchange rate variance maintained at the product.

Negotiation Reference Number

Specify the reference number that should be used for negotiation of cost rate, in foreign currency transaction. If you have specified the negotiated cost rate, then you need to specify the negotiated reference number also.



Oracle FLEXCUBE books the online revaluation entries based on the difference in exchange rate between the negotiated cost rate and transaction rate.

Settlement Details

Depending upon the mode of payment the following settlement details are captured:

For 'CASA':

- Settlement Branch

- Settlement Account

For 'Credit Card' and 'Debit Card'

- Card No.

For 'Clearing'

- Upload Source
- Instrument Number
- Clearing Product
- End Point
- Routing Number
- Clearing Bank
- Clearing Branch
- Sector Code

For 'External Account'

- Upload Source
- PC Category
- Clearing Bank
- Clearing Branch
- External Account Name
- External Account Number

For 'Electronic Pay Order'

- Upload Source
- PC Category
- Clearing Bank
- Clearing Branch
- External Account Name
- External Account Number

For 'Internal Check'

- Instrument Number
- Settlement Branch
- Settlement Account

For 'Instrument'

- Instrument Number
- Settlement Branch

- Settlement Account

For 'Cash/Teller'

- Upload Source
- Settlement Product

For External Cheque (ECK)

- Instrument Number
- External Account
- Clearing Bank
- Clearing Branch



You need to maintain 'External Cheque' (ECK) as a settlement mode in the 'Multimode Settlement' screen. The system uses it internally for accounting entries.

Component Details

The following details are captured here:

Component Name

The system displays the component name in this field.

Currency

The system displays the currency of the component based on Loan currency and the account in this field. If the component is based on a flat amount UDE then the UDE currency is displayed.

Amount due

The system displays the amount due for the component in this field. It is generated based on the account and component.

Adjustment Due

Adjustment due happens when there is a revaluation or when there is rate revision, according to increase or decrease of rates.

Amount overdue


Here, the system displays the amount overdue for the component. It is generated based on the account and component.

Amount not due

For the principal amount, Amount not due is the rest of principal that is due after the value date. Hence any payment towards this constitutes a prepayment. This value is system generated based on account and component.

Amount Paid

The system displays the actual amount paid against the component dues in this field.

 When payments are allocated across dues, payment details are defaulted from the liquidation order. But these details can be modified as per your preferences.

Amount Waived

Enter the amount waived by the bank after negotiations with the customer in this field.

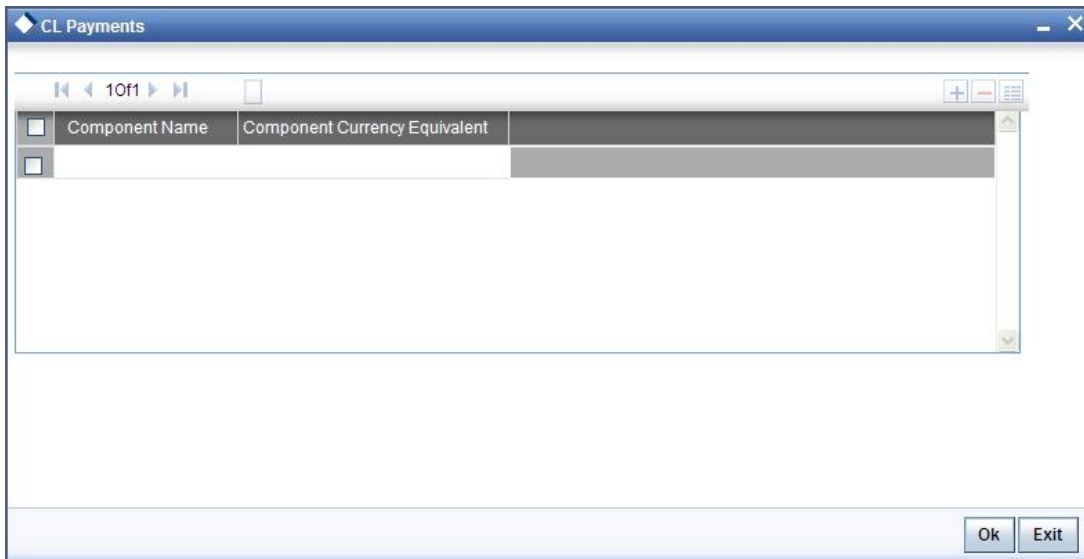
Amount Capitalized

Enter the amount capitalized in this field.

On saving a manual payment towards a loan component (s), the online liquidation against each such component follows the order of liquidation as specified through the 'Component Liquidation Order' screen.

8.2.1.1 Viewing Component Settlement Details

Each settlement is apportioned against a component due based on the Liquidation order. The order in which the settlements are picked is ordinal as entered in the screen. Click 'Settlement Component' button to view/change the component settlement details in the 'Component Details' screen.



8.2.2 Penalty Rates Tab

You can maintain the penalty details of the product by clicking the 'Penalty' tab in the 'CL Payments' screen. The screen is displayed below:

The screenshot shows the 'CL Payments' application window. At the top, there are input fields for 'Account *', 'Branch Code *', and 'ESN'. Below these is a navigation bar with tabs for 'Payment Details', 'Penalty Rates', 'Fields', and 'Check List'. The 'Penalty Rates' tab is active, displaying a table with the following columns: 'Effective Date', 'User Defined Element Name', and 'User Defined Element Value'. The table has a scroll bar on the right. Below the table, there are several input fields for 'Maker ID', 'Checker Id', 'Status', 'Date Time', 'Checker Date', 'Reversal Checker ID', 'Reversal', 'Input By', and 'Date Time'. An 'Exit' button is located in the bottom right corner.

8.2.3 Fields Tab

You can maintain user defined fields for the product by clicking the 'Fields' tab in the 'CL Payments' screen. The screen is displayed below:

CL Payments

Account * _____ Branch Code * _____ ESN _____

Payment Details Penalty Rates Fields Check List

Character Fields _____

Number Fields _____

Date Fields _____

Maker ID Checker Id Status
 Date Time Checker Date Authorized
 Reversal Reversal Checker ID
 Input By Date Time
 Date Time

Exit

8.2.4 Check List Tab

Click the 'Check List' tab to maintain the check lists and remarks for the product. The screen is displayed below:

The screenshot shows the 'CL Payments' application window. At the top, there are input fields for 'Account *', 'Branch Code *', and 'ESN'. Below these is a navigation bar with tabs for 'Payment Details', 'Penalty Rates', 'Fields', and 'Check List'. The 'Check List' tab is active, displaying a table with two columns: 'Description' and 'Checked'. The table has a scroll bar on the right. Below the table is a 'Remarks' section with 10 numbered input fields (Remark 1 to Remark 10). At the bottom of the window, there are several input fields: 'Maker ID', 'Checker Id', 'Status', 'Date Time', 'Checker Date', 'Reversal Checker ID', 'Reversal', 'Input By', and 'Date Time'. An 'Exit' button is located in the bottom right corner.

8.2.5 Partial Payment

Partial payment is required to parameterize partial liquidation during auto liquidation process.

In the 'CL Product Preferences' screen you can indicate whether partial liquidation is allowed during auto liquidation of the loan or not. This preference set at the product level gets defaulted at the account creation level also. But this option is allowed only if 'Verify Funds' option is selected. Auto Liquidation will check this option before carrying out partial liquidation viz. before liquidating to the extent of availability during Verify Funds check.

If selected, the function proceeds with liquidation, else it is marked as unpaid.

The screenshot shows the 'Preferences' dialog box with the following sections and options:

- Product Code:** _____
- Description:** _____
- Rate/Account Preferences | Account Preferences | Holiday Preferences**
- Rate:**
 - Normal variance: _____
 - Maximum Variance: _____
 - Rate Type: STANDARD
 - Middle Rate: Middle Rate, Buy/ Sell Rate
- Liquidation:**
 - Liquidation Mode: Auto
 - Allow Partial Liquidation
 - Reset retry count for reversed auto liquidation
 - Retries Auto Liquidation Days: _____
 - Liquidate All Component for a Date
 - Liquidate Each Component Across Dates
 - Guarantor A/C applicable status: _____
 - Auto Liquidation Basis: Minimum Amount Due
 - Percentage: _____
- Rate Plan Change Frequency:**
 - Tenor: _____
 - Unit: _____
- Rate Plan Window:**
 - Tenor: _____
 - Unit: _____
- Revolving Loan:**
 - Revolving Type
 - Open Line Loans
 - Credit Days: _____
- Account Preferences:**
 - Pass Book Facility
 - Track Receivable Auto Liquidation
 - Atm Facility
 - Liquidate Back Valued Schedules
 - Amend Past Paid Schedule
 - Cheque Book
 - Back Period Entry Allowed
 - Packing Credit Product
 - Interest Statement
 - Special Interest Accrual
 - Notary Confirmation
 - Limits Product

Buttons: OK, Cancel

Refer the section titled 'Specifying Product Preferences' in the 'Defining Product Categories and Products' chapter of this User Manual for more details.

8.2.6 Payments Simulation

Loan payment simulation calculation function is used to arrive at an agreement with the client. The 'Payment Simulation' screen displays the effect of making payments across components across schedules. You can invoke this screen by typing 'CLDSIMPT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button. The results are used to arrive at a negotiated amount that can be used to settle outstanding loss.

The screenshot shows the 'Payment Simulation' application window. It is divided into several sections:

- Account Details:** Includes fields for Branch (000), Account Number, Value Date (2011-12-01), Execution Date (2011-12-01), Event Sequence Number, Customer Number, Main Interest Rate, and Limit Date. There are also buttons for 'Populate Due', 'Penalty Rates', 'Allocate', 'Check List', and 'Event Fields'.
- Outstanding Balance Report:** Includes a field for 'Outstanding Amt' and a 'Collection Agent Id' field.
- Prepayment of Amortized Loan:** Includes a dropdown for 'Recomputation Basis' (set to 'Change EMI') and a field for 'Recomputation Effective From' (set to 'Value Date').
- Payment Details:** A table with columns: Reversed, Payment Mode, Settlement Currency, Amount Settled, Loan Currency Equivalent, Original Exchange Rate, Exchange Rate, Set Component, and Settler.
- Component Details:** An empty table.
- Simulate:** A button to simulate the payment.
- Input Fields:** Fields for 'Input By', 'Date Time', 'Authorized By', and 'Date Time' for both the main simulation and a 'Reversal' section. There is also a 'Contract Status' checkbox and a 'Cancel' button.

For more details on the field explanation refer section 'Loan Payment' in this chapter.

You can change specific UDE values to simulate the effect of changing prepayment penalty rates.

Payments can be saved from the simulator. Once the payment simulation is saved, if you enter simulation account number in the payments screen and click on the 'Populate Due' button then the system displays all the details entered in the payment simulation screen.



Only users with rights to input payments are allowed to save payments from the simulator.

Click 'Simulate' button to view the account details after the current payment. An account screen is launched to view the updated account after the payment. You can also print an advice from the simulation screen.

You can also check the installment details. A reference number generated in this screen can be used to make the payment in CL Payment screen if payment is required to be made on the same day.

8.2.7 Back Dated Payments

Oracle FLEXCUBE supports back value dating only upto the last payment date from the current date, if the box 'Allow back period entries' is not checked at the product level. In other words, only those back dated payments whose value date is after the last payment date are allowed.

If the box 'Allow back period entries' is checked at the product level, then the following functionalities will apply:

- Oracle FLEXCUBE supports back dated payments till the Loan Initiation / Value date.
- Whenever a back valued event such as Principal Increase, Rate Change or Payment Reversal is made, the system recalculates Interest based on the new conditions and passes the difference as back valued adjustments.
- Back valued Adjustments (accruals and Liquidations) are passed on the same day.
- Entries passed will be as follows:
 - Accrual Adjustments (for a Component COMP)

Case 1: Favourable Adjustment (Income earned)

Dr Back valued Interest Adjustment GL	COMP_BVADJ_INC
Cr Accrual Adjustment Income	COMP_BVADJ_INC

Case 2: Unfavourable Adjustment (Expense)

Dr Accrual Adjustment Expense	COMP_BVRADJ_EXP
Cr Back valued Interest Adjustment GL	COMP_BVRADJ_EXP
Liquidation Adjustments	
Dr Settlement AC	COMP_BVADJ_INC
Cr Back valued Interest Adjustment GL	COMP_BVADJ_INC
Dr Back valued Interest Adjustment GL	COMP_BVADJ_EXP
Cr Settlement Account	COMP_BVADJ_EXP

Back valued Adjustments are passed to the loan servicing account maintained at the loan level.

8.2.8 Making Bulk Payments against Loan or Commitment

The 'BulkPayments' screen is provided to create bulk payments against a limit or commitment for a loan account. The loan/commitment linked to the loan account for which the prioritization rules are maintained, is considered for bulk payment.

Bulk payment is done for the loan accounts linked to an L/C for which the bulk payment option is checked. The bulk payment is always done for the current branch. The Bulk payment is done only for the CL accounts belonging to the current branch from where bulk payments are made. Bulk payment amount is allocated to the accounts linked to a loan/commitment account. This allocation is done based on the Prioritization rules maintained for the L/C selected. If a specific rule is not available for L/C reference for the branch, the ALL option is considered. The payment is triggered based on the amount allocated per the prioritization rules.

To make the bulk payments for the accounts associated under an L/C allocated, invoke the 'BulkPayments' screen by typing 'CLDBLKPT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot displays the 'Bulk' application window. At the top, there are input fields for 'Branch Code', 'Bulk Entity Type' (a dropdown), 'Bulk Payment Reference *', 'Currency', 'Total Payment Amount', and 'Value Date'. To the right, there are fields for 'Bulk Entity Reference', 'Liability Id', and 'Bulk Entity Type'. Below these are two buttons: 'Populate Due' and 'Allocate'. The window is divided into two main sections: 'Payment Details' and 'Component Details'. The 'Payment Details' section contains a table with columns: 'Reversed', 'Account Number', 'Payment Mode', 'Settlement Currency', 'Amount Settled', 'Local Currency Equivalent', and 'Exchange Rate'. The 'Component Details' section contains a table with columns: 'Account Number', 'Component Name', 'Currency', 'Amount Due', 'Overdue', 'Amount Waived', and 'Amount Paid'. At the bottom of the window, there are fields for 'Maker Id', 'Checker Id', 'Status', 'Maker Date Stamp', 'Checker Date Stamp', and an 'Authorized' checkbox. An 'Exit' button is located in the bottom right corner.

The following details are specified for making the bulk payments under a loan/commitment account:

Branch Code

This displays a valid branch code for making bulk payments. All the accounts associated to a loan/commitment are marked for bulk payments in this branch.

Bulk Payment Reference

Specify the bulk payment reference number for the particular bulk payment made. This is generated once you click the 'Populate Due' button.

Total Payment Amount

Specify the total payment amount available to be allocated across the due components/accounts under a loan/commitment.

Currency

Specify a valid currency to be maintained as part of the bulk payment made. The adjoining option list displays all the valid currency maintained in the system. You can choose the appropriate one.

Limit Date

Specify the date the limit line is attached to the loan/commitment.

Bulk Entity Type

Select the Bulk Entity type from the adjoining drop-down list. This list displays the following values:

- Limit Line
- Commitment

Specify the type of entity for which bulk payments are made. If the bulk entity type is chosen as limit line, you can then choose the credit line against which the payment needs to be made in the field Bulk Entity. The liability ID linked to this limit is defaulted. Only valid limit lines linked to the loan accounts in the current branch are displayed in the option list.

For the bulk entity type 'Commitment' the Commitment reference number is chosen from the option list for the "Bulk Entity". The customer id of the commitment is populated as the liability ID, and the commitment branch is populated as the branch code. The bulk entity option list displays only the commitments defined under the current branch.

Liability ID

Select the liability ID from the list of values provided. If the Bulk entity type is limit line then the liability for which a limit line is linked to the CL account, is displayed in the list of values. If Bulk entity type is commitment then the liability for which commitment is linked to the CL account, is displayed.

Bulk Entity Reference

Specify the bulk entity reference. You can also select the bulk entity reference from the adjoining option list. The list displays the reference number based on the bulk entity type and liability ID.

After specifying the Bulk Entity details and value date, click the 'Populate Due' button. Payment Details and Component Details options are enabled to list all active loan accounts (linked to the L/C selected) and the component wise amount due respectively.

After providing the bulk payment amount, click 'Allocate' button to display the payment details and component wise details with all the applicable accounts including the total amount due and total amount allocated against each as per the bulk payment preference maintenance.

Payment Details

Specify the following details:

Reversed

You can reverse a payment done for single account involved in bulk payment. Check this box to indicate that this payment should be reversed.

An override message gets displayed.

Account Number

Specify the account number. The applicable loan accounts under payment details with total amount due and amount allocated against under bulk payment preference are displayed.

Payment Mode

Select the payment mode from the drop-down list. This list displays the following values:

- CASA
- Cash Teller
- Clearing
- Instrument
- External Pay Order
- Credit Card
- Debit Card
- External Account Details
- Internal Cheque

Settlement Currency

Specify a valid settlement currency in which payment is to be made. This adjoining options list contains all the valid settlement currencies maintained in the system. You can choose the appropriate one.

Amount Settled

Specify the amount settled. The total amount due and allocated against each loan account is displayed based on the clicking of the 'Allocate' button; these can be however changed.

Loan Currency Equivalent

Specify the loan currency equivalent for the payment.

Settlement Branch

Specify the branch at which the settlement takes place. You can also select a preferred value from the option list provided.

Exchange Rate

Specify the exchange rate applicable.

The amount allocated is available for modification, after application of the automatic allocation action.

Check list

This contains a check list screen for the bulk payment made. You need to specify the description or any remarks if any. To invoke this screen click 'Check List'. This check list is provided with respect to each account. The user needs to navigate to these details for each contract before saving the payment. The check list details are populated on clicking Check list button. You can verify all options the check list for the payment using this screen.

The screenshot shows a software window titled "Checklist". At the top, there is a navigation bar with "1 of 1" and a "Go to Page" button. Below this is a table with the following structure:

Checked	Description *
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	

Below the table, there are ten text input fields labeled "Remark 1" through "Remark 10". At the bottom right of the window, there are "Ok" and "Cancel" buttons.

Checked

Check this box to indicate if the check list details are to be maintained for the bulk payment made

Description

Specify a description of the check list item, which the bulk payment is checked against.

Remark 1

Specify remarks for the check list, if any.

Remark 2

Specify remarks for the check list, if any.

Remark 3

Specify remarks for the check list, if any.

Remark 4

Specify remarks for the check list, if any.

Remark 5

Specify remarks for the check list, if any.

Remark 6

Specify remarks for the check list, if any.

Remark 7

Specify remarks for the check list, if any.

Remark 8

Specify remarks for the check list, if any.

Remark 9

Specify remarks for the check list, if any.

Remark 10

Specify remarks for the check list, if any.

Settlement Branch

Specify a valid settlement branch. The adjoining option list displays all valid settlement branch maintained in the system. You can choose the appropriate one.

Settlement Account

Specify a valid settlement account. The adjoining option list displays all the valid settlement account maintained in the system. You can choose the appropriate one.

Settlement Product

Specify the settlement product.

Instrument Number

Specify the instrument number.

End Point

Specify a valid end point. This adjoining option list displays all the valid end point maintained in the system. You can choose appropriate one.

Card Number

Specify the card number

External Account Number

Specify the external account number.

External Account Name

Specify the external account name.

Clearing Bank

Specify a valid clearing bank. This adjoining option list displays all valid clearing banks maintained in the system. You can choose the appropriate one.

Clearing Branch

Specify the clearing branch.

Upload Source

Specify a valid upload source. This adjoining option list displays all the upload source maintained in the system. You can choose the appropriate one.

Sector Code

Specify a valid sector code. This adjoining option list displays all the valid sector code maintained in the system. You can choose the appropriate one.

Routing Number

Specify the routing number.

Settlement Reference Number

Specify the settlement reference number.

Component Details

Specify the following details:

Account Number

Specify the account number.

Component Name

Specify the name of the component.

Component Currency

Specify the component currency.

Amount Due

Specify the amount to be paid.

Amount Paid (Component Currency)

Specify the amount that is paid.

Amount Overdue

Specify the overdue amount.

Amount Waived

Specify the amount that is waived. You can choose the amount to be waived here.

You can perform the following operations in this screen:

- Save
- Delete
- Authorize

Against each account populated, settlement fields are enabled to capture the details required for the particular settlement mode that has been chosen against the account. The different modes of payment applicable in the manual loan payment screen are made available here as well. Multiple modes of settlement for the same account are not supported.

You can change the allocated amount after the automatic allocation. System validates the data on saving to compare the total payment amount and the sum of amount settled against each component with respect to limit currency. Additionally reversal of payment done for a single account involved in bulk payment is permitted with an override from the manual payment screen.

8.2.8.1 Viewing Summary Records

You can view and amend details of a particular record by using the 'Summary' screen. You can invoke this screen by typing 'CLSBLKPT' the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Bulk Payment Summary' application window. The window title is 'Bulk Payment Summary'. It contains several input fields: 'Bulk Payment Reference', 'Branch Code' (with value '000'), 'Bulk Entity Type' (dropdown), 'Bulk Entity Reference', 'Liability Id', and 'Currency'. Below these are 'Search' and 'Advanced Search' buttons, and 'Refresh' and 'Reset' buttons. A table below shows a list of records with columns: Bulk Payment Reference, Branch Code, Bulk Entity Type, Bulk Entity Reference, Liability Id, Currency, and Value Date. The table is currently empty. At the bottom right is an 'Exit' button.

To view a particular record double click on the desired record displayed in the list of records. The required record is enabled for action.

8.2.9 Viewing CL Payments Summary

You can view the CL payments summary using 'Summary' screen. To invoke this screen, type 'CLSPYMNT' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.

The screenshot shows a web application window titled "Summary". At the top, there are input fields for "Account", "Authorized" (a dropdown menu), and "Branch Code". Below these are "Search" and "Advanced Search" buttons, along with "Refresh" and "Reset" buttons. A pagination bar indicates "Records per page 15" and "1 of 1" records. The main area contains a table with the following columns: Account, Branch Code, Event Sequence Number, Value Date, Execution Date, Authorized, and Recomputation Basis. The table is currently empty. At the bottom right of the window is an "Exit" button.

You can click 'Search' button to view all the pending functions. However, you can filter your search based on any of the following criteria:

Account

Select the account number from the option list.

Authorized

Select the authorization status of the contract from the drop-down list.

Branch Code

Select the branch code for which you want to check the contract from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Account
- Branch Code
- Event Sequence Number
- Value Date
- Execution Date
- Authorized
- Recomputation basis
- Recomputation Effective From
- Installment (s)

Click 'Advanced Search' to display the screen below:

The screenshot shows the 'Advanced Search' dialog box. It features a 'Fields' list on the left with the following items: Account, Branch Code, Event Sequence Number, Value Date, Execution Date, Authorized, Recomputation Basis, Recomputation Effective From, and Installment(s). The main area is divided into two sections. The top section is for 'Query' and includes an 'Operator' dropdown, 'Value' and 'To' input fields, and buttons for 'And', 'Or', 'Accept', and 'Clear Query'. The bottom section is for 'Order By' and includes an 'Ascending' dropdown, 'Accept', and 'Clear Query' buttons. At the bottom right are 'Ok' and 'Cancel' buttons.

You can query a contract based on any of the following details:

- Account
- Branch Code
- Event Sequence Number
- Value Date
- Execution Date
- Authorized

- Recomputation basis
- Recomputation Effective From
- Installment (s)

8.2.10 **Saving and Authorising CL Payments**

You have to save a CL payment after entering all the required details in the system. Click Save icon on the Toolbar or choose 'Save' from the Actions menu to save an account.

On saving the account, the system validates the value of the amount financed against the following:

- Product transaction limit
- User Input limit

If the transaction currency and the limit currency are different, then the system converts the amount financed to limit currency and checks if the same is in excess of the product transaction limit and user input limit. If this holds true, the system indicates the same with below override/error messages:

- Number of levels required for authorizing the transaction
- Transaction amount is in excess of the input limit of the user

You have to authorise a CL payment before you run EOD batch. To authorize, click 'Authorize' icon on the Application toolbar.



You cannot authorise from the 'CL Payments' screen in the following cases:

- the contract has multilevel of authorization pending, the same will be done using the 'Multilevel Authorization Detailed' screen
- the level of authorization is greater than or equal to 'N'
- the 'Nth' or the final level of the users authorisation limit is less than the difference between amount financed and sum of the limits of all the users involved in authorizing a transaction, this case holds good when the 'Cumulative' field is checked in the 'Product Transaction Limits Maintenance' screen
- the transaction amount is greater than the authoriser's authorisation limit if the 'Cumulative' field is unchecked in the 'Product Transaction Limits Maintenance' screen.

8.2.11 **Confirming Advice Print**

Once a transaction has been authorized, the system shifts the focus to 'Advices' tab. Select the message that you wish to view or print and click 'View' button. The system displays the full message in a new window. Verify the message and click 'Print' to print it.

8.2.12 Generating Alerts for Bounced Cheques

Each time a customer pays an installment through a cheque from another bank (i.e. mode of payment is ECK or Clearing), the system checks if there have been reject reasons associated with the previous installments paid by cheque by the same customer. If so, it displays an alert indicating the same. If you override this alert by clicking OK or there is no history of reject reasons for cheque bouncing existing for the customer, the installment payment is saved. If you click 'Cancel' at the message prompt, the save is stopped.



You need to maintain CHQB_ALERT as a user policy and attach it to MLIQ event for the cheque bounce alert to be generated.

8.2.13 Payment process in discounted account and bearing account

System calculates amount for Life Insurance. The SDE ,REFUND_AMT returns the refund amount for discounted components based on below factors

For Main Interest-

- Re-computation Basis
- Refund option

For Insurance

- Based on payment yielding to liquidation.

Refund amount for annually discounted life insurance will be calculated from payment date. On performing "populate due" during payment processing, system will build refund amount against each refund component with assumption of complete payment. Further to availing settlement details, during allocating settlement amounts to components, system will further recalculate refund amount for each refund component. If payment amount yield to liquidation of loan, system will restrict recalculation of refund amount for refund components.

The Refund option by default will be 'N' for the discounted components. If refund is not opted for a component, a settlement mode "Refund" will be populated with refund amount as settlement amount. If payment with recomputation option other than "Next Installment" yield in refund of discounted interest

- System will perform a payment towards principal component from the amount derived based on predefined formulas in requirement.
- System will initiate recalculation of all components (resulting in recalculation of refund amount too).
- Payment will be initiated with revised payment amount.

The following maintenances are expected for the following cases

- For cases where an excess payment done towards a loan exceeding total outstanding.
- For cases where Refund is set as 'Y' for discounted refund components where the Refund amount is refunded back to the customer.



Note the following:

- The bearing product should have component for “National Collateral Fund” and “Life Insurance” with same names as defined in discounted product.
- In discounted product “National Collateral Fund” and “Life Insurance” has to be configured as single premium component, but bearing product and “Life Insurance” has to configure as yearly Discounted component.

8.3 Maintaining Indirect Payment Details

You can make indirect payment towards the loan using the 'Indirect Payment' screen. You can invoke this screen by typing 'CLDIDPMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Specify the following account details:

Account Number

Specify the account number. The adjoining option list displays all the account numbers maintained in the system.

Branch Code

The system displays the branch code based on the account number selected.

Customer ID

The system displays the branch code based on the account number selected.

Product Code

The system displays the branch code based on the account number selected.

Reason Code

The system displays the reason code.

Value Date

Select the value date from the adjoining calendar.

Recomputation Basis

By default, the system displays 'One Installment' as the recomputation basis, but this can be modified. Select the recomputation basis from the adjoining drop-down list. The list displays the following values:

- One Installment
- Next Installment
- Change Installment
- Reduce Tenor

Reference Number

The system displays a unique reference number for each indirect payment.

External Reference Number

The system displays unique sequence number.

Payment Details

Specify the following payment details:

Reversed

Check this box to indicate that the settlement needs to be reversed.

Payment Mode

By default, the system displays 'CASA' as the payment mode, but this can be modified. Select the mode of loan payment from the adjoining drop-down list. The list displays the following values:

- CASA
- Cash/Teller
- Clearing,
- Instrument
- Electronic Pay Order
- Credit Card
- Debit Card
- External Account
- Internal Cheque

Settlement Currency

Specify the currency used for the specific payment mode. The adjoining option list displays all the valid currency codes maintained in the system. You can choose the appropriate one.

Settlement Amount

Specify the amount paid through the specified mode of payment in terms of the settlement currency in this field.



The amount should be a valid amount and should not exceed the total amounts due; else it is treated as a prepayment.

Source Code

Specify the source code. The adjoining option list displays all the valid source codes maintained in the system. You can choose the appropriate one.

Loan Currency Equivalent

The system displays the amount settled in terms of the local currency in this field.

Original Exchange Rate

The base or actual exchange rate between the account currency and settlement currency gets displayed here.

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

You can change the defaulted rate provided the change is within the variance level maintained for the underlying product.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual

Settlement Branch

Specify the settlement branch. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Settlement Account

Specify the settlement account. The adjoining option list displays all the valid account numbers maintained in the system for the selected settlement branch. You can choose the appropriate one.

Settlement Product

Specify the settlement product. The adjoining option list displays all the valid product codes maintained in the system. You can choose the appropriate one.

Instrument Number

Specify the external cheque number.

End Point

Specify a valid end point. The adjoining option list displays all the valid end points maintained in the system. You can choose the appropriate one.

Card Number

Specify the card number

External Account Number

Specify the external bank account number.

External Account Name

Specify the external account name.

Clearing Bank

Specify the banker's cheque issuing bank name. The adjoining list displays all the clearing bank codes maintained in the system. You can choose the appropriate one.

Clearing Branch

Specify the clearing branch.

Sector Code

Specify the sector code. The adjoining option list displays all the valid sector codes maintained in the system. You can choose the appropriate one.

Routing Number

Specify the routing number.

Settlement Reference Number

Specify the settlement reference number.

Negotiated Cost Rate

Specify the negotiated cost rate that should be used for foreign currency transactions between the treasury and the branch. You need to specify the rate only when the currencies involved in the transaction are different. Otherwise, it will be a normal transaction.

The system will display an override message if the negotiated rate is not within the exchange rate variance maintained at the product.

Negotiation Reference

Specify the reference number that should be used for negotiation of cost rate, in foreign currency transaction. If you have specified the negotiated cost rate, you will need to specify the negotiated reference number also.



Oracle FLEXCUBE books the online revaluation entries based on the difference in exchange rate between the negotiated cost rate and transaction rate.

8.4 Viewing Indirect Payment Summary Details

You can query and view all the indirect payment details using the 'Indirect Payment Summary' screen. You can invoke this screen by typing 'CLSIDPMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Indirect Payment Summary' application window. The window title is 'Indirect Payment Summary'. It features a search form with the following fields: Account Number, Customer ID, Branch Code, Reference Number, Recomputation Basis, and External Reference Number. Below the search form are buttons for 'Search', 'Advanced Search', 'Refresh', and 'Reset'. A table below the search form shows a single record with columns: Account Number, Reference Number, Customer ID, Recomputation Basis, Branch Code, and External Reference Number. The table is currently empty. At the bottom right of the window is an 'Exit' button.

You can query based on any or all of the following criteria:

- Account Number
- Customer ID
- Branch Code
- Reference Number
- Recomputation Basis
- External Reference Number

Click the 'Search' button. The system identifies all records matching the specified search criteria and displays the following details for each one of them:

- Account Number
- Customer ID

- Branch Code
- Reference Number
- Recomputation Basis
- External Reference Number

Double click the record to invoke the detailed screen.

8.5 Making Massive Indirect Payments

You can apply the indirect payments which are saved using the 'Indirect Payment Details' screen through the 'Massive Payment' screen. You can invoke this screen by typing 'CLDMSPMT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Specify the following details:

Customer ID

Specify the customer ID. The adjoining option list displays all the valid customer IDs maintained in the system. You can choose the appropriate one.

Branch Code

Specify the branch code. The adjoining option list displays all the valid branch codes maintained in the system. You can choose the appropriate one.

Value Date

Select the value date from the adjoining calendar.

Account Number

Specify the account number. The adjoining option list displays all the account numbers maintained in the system. You can choose the appropriate one.

Product Code

Specify the product code. The adjoining option list displays all the valid product codes maintained in the system. You can choose the appropriate one.

Special Condition

Specify the special condition. The adjoining option list displays all the valid special conditions maintained in the system. You can choose the appropriate one.

Loan Status

Specify the loan status. The adjoining option list displays all the valid loan statuses maintained in the system. You can choose the appropriate one.

Click the 'Fetch' button. The system queries the indirect payment pending with payments based on the aforementioned fields and populates Indirect Payment Details block with the following details:

- Account Number
- Customer ID
- Branch Code
- Value Date
- Amount
- Currency
- Reference number
- Source Code
- Reason Code

Specify the following details:

Pay

Check this box against each record to indicate that the payment needs to be done.

Interest Refund

This field is mapped to Refund Preference of 'CL Payment' screen only for 'Main Interest' component. When this box is checked the refund component for main interest will be set with refund option, when payment is processed through this screen.

8.6 Querying Loan Balances

You can query different balances of loan based on a value date using the 'Amount Dues Query' screen. You can invoke this screen by typing 'CLDQUERY' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Component Name	Real/Contingent	Component Currency	Amount Due	Amount Overdue	Amount Not Due	Adjustment Due
----------------	-----------------	--------------------	------------	----------------	----------------	----------------

Specify the following details:

Account Number

Specify the account number. The adjoining option list displays all the accounts numbers maintained in the system. You can choose the appropriate one.

Branch Code

The system displays the branch code based on the account number selected.

Value Date

Select the value date from the adjoining calendar.

Liability GL Balance

Specify the liability GL balance.

Click the 'Populate Due' button. The system displays the following details:

- Component Name
- Real/Contingent
- Component Currency
- Amount Due
- Amount Overdue
- Amount Not Due

- Adjustment Due



Note the following:

- If there exists any payment/VAMI/rollover post query date, the system will not process the request.
- For queries with value date being current application date, the system will provide the real and contingent balances.
- The system will display the pending amount in the liability GL received as a part of the Next Instalment payment.
- System will display an appropriate due amount for different insurance types across different products.
- The system will show the refund amount as well against the refund component.

8.7 Loan Amendments

Once a Loan is entered and authorized, financial changes to the Loans can be done through the 'Value Dated Amendments' screen. These amendments are based on an effective date and hence are called Value Dated Amendments (VAM). You can invoke this screen by typing 'CLDACCVM' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Click new icon in the toolbar of the screen or select 'New' from the Actions menu in the Application toolbar. The system will display 'Transaction Branch Code' screen. Here you can select the transaction branch.



The system defaults the logged-in branch by default as the transaction branch.


Transaction Branch

Select the appropriate branch from the list of branches available in the option list.

While clicking 'Ok' button, the system validates the access rights of the selected branch and function for the user. If you don't have appropriate rights on the selected branch and function, the system will display an error message. If you select a valid branch, the system updates the same as transaction branch and the transaction will be posted for this branch.

Booking an amendment is called VAMB and Initiating is called VAMI. These are considered as events in the life cycle of the Loan.

Value Dated Amendments supports the following functions:

- Modification of currency between UF and CLP. The UF conversion on any date uses the effective date UF rate.
 - When the above change in interest rate is completed, the accrual is recomputed. The difference in accruals is accounted for in the current period on the booking date of the change.
 - During VAMI, if the principal or rate of interest increases or decreases then based on the specified VAMI re-computation option, the system either modifies the EMI, tenor, or the final bullet/balloon payment.
-  If there no change in the EMI or the tenor, then the 'Balloon Payment' option should be chosen.
- Whenever there is a re-computation due to VAMI or Pre-payment, the system adjusts the principal against the final bullet, since there is no change in EMI or Tenor and 'Balloon Payment' is selected. However; if the EMI interest amount increases and is greater than or equal to EMI amount, then the system automatically changes the re-computation method to 'Change Installment' to re-compute EMI.

Example

If the principal is increased by 10000 even before the first schedule date during VAMI and the re-computation basis is 'Change Installment'

Loan Amount	20000
Loan Value Date	31-Mar-08
Maturity Date	30-Jun-2009
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly
Interest Method	Actual/360
VAMI Re-computation	Change Installment
Principal Increased By	10000

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
		1.0000000000	1.0000000000					30000.00
		000000	0000000000					

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
		0000	0					
30-Jun-08	91	1.025277777 777800000	1.0252777 77780000	1.1053092206 704400000	6468.31	764.74	5703.57	24296.43
30-Apr-08	30					250		
31-May-08	31					260.4861111		
30-Jun-08	30					254.2540509		
30-Sep-08	92	1.025555555 555600000	1.0514793209 876500000	1.0777663040 1235000000	6468.31	626.21	5842.1	18454.33
31-Jul-08	31					209.2192583		
31-Aug-08	31					211.0208686		
30-Sep-08	30					205.9722511		
31-Dec-08	92	1.025555555 555600000	1.0783504591 906700000	1.0509097222 2222000000	6468.31	475.64	5992.67	12461.66
31-Oct-08	31					158.9122861		
30-Nov-08	30					155.1103524		
31-Dec-08	31					161.6163699		
31-Mar-09	90	1.025000000 000000	1.1053092206 704400000	1.0255555555 5556000000	6468.31	314.14	6154.17	6307.49

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
		0000	0					
31-Jan-09	31					107.3087389		
28-Feb-09	28					97.75864575		
31-Mar-09	31					109.0745969		
30-Jun-09	91	1.025277777	1.1332489815	1.0000000000	6468.28	160.79	6307.49	0.00
		777800000	2627000000	0000000000				
30-Apr-09	30					52.56241667		
31-May-09	31					54.76711803		
30-Jun-09	30					53.45682946		
				5.2592630246				
				8278000000				

# Iteration	Bullet EMI	Difference in EMI	Present Value	New Basis Amount	New EMI
1	6485.37	21.07	18.60384325	30018.60384325	6468.31

If the principal is increased by 10000 even before the first schedule date during VAMI and the re-computation basis is 'Balloon Payment'

Loan Amount	20000
Loan Value Date	31-Mar-08
Maturity Date	30-Jun-2009
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly

Interest Method	Actual/360
VAMI Re-computation	Change Installment
Principal Increased By	10000

Schedule Date	Days	Sch Factor	Instalment	Installment Denom	EMI	Interest	Principal	Expected Principal
		1.00000 00000	1.0000000 000					30000
		0000000 000	000000000 0					
30-Jun-08	91	1.02527 77777	1.0252777 777	1.10530922 06	4312. 2	764.74	3547.46	26452.54
		7778000 000	777800000 0	7044000000				
30-Apr-08	30					250		
31-May-08	31					260.486 1111		
30-Jun-08	30					254.254 0509		
30-Sep-08	92	1.02555 55555	1.0514793 209	1.07776630 40	4312. 2	681.78	3630.42	22822.12
		5556000 000	876500000 0	1235000000				
31-Jul-08	31					227.785 7611		
31-Aug-08	31					229.747 2496		
30-Sep-08	30					224.250 6084		
31-Dec-08	92	1.02555 55555	1.0783504 591	1.05090972 22	4312. 2	588.21	3723.99	19098.13
		5556000 000	906700000 0	2222000000				
31-Oct-08	31					196.523 8111		
30-Nov-08	30					191.822 0318		

Schedule Date	Days	Sch Factor	Instalment	Installment Denom	EMI	Interest	Principal	Expected Principal
31-Dec-08	31					199.867 9003		
31-Mar-09	90	1.02500 00000 0000000 000	1.1053092 206 704400000 0	1.02527777 77 7778000000	4312. 2	481.44	3830.76	15267.37
31-Jan-09	31					164.456 1194		
28-Feb-09	28					149.820 1143		
31-Mar-09	31					167.162 387		
30-Jun-09	91	1.02527 77777 7778000 000	1.1332489 815 262700000 0	1.00000000 00 0000000000	15656 .56	389.19	15267.37	0.00
30-Apr-09	30					127.228 0833		
31-May-09	31					132.564 5946		
30-Jun-09	30							
				5.25926302 46 8278000000				

If the rate is increased to 15% on 30th Sep 2008, during VAMI and the re-computation basis is 'Balloon Payment'.

Loan Amount	20000
Loan Value Date	31-Mar-08
Maturity Date	30-Jun-2009
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly
Interest Method	Actual/360

VAMI Re-computation	Balloon Payment
Rate Changed To	15%
Rate Changed On	30-Sep-2008

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
		1.0000 000000	1.00000000 00					20000.00
		000000 0000	000000000 0					
30-Jun-08	91	1.0252 777777	1.02527777 77	1.10530922 06	4312. 20	509.83	3802.37	16197.63
		777800 0000	777800000 0	7044000000				
30-Apr-08	30					166.666 6667		
31-May-08	31					173.657 4074		
30-Jun-08	30					169.502 7006		
30-Sep-08	92	1.0255 555555	1.05147932 09	1.07776630 40	4312. 20	417.48	3894.72	12302.91
		555600 0000	876500000 0	1235000000				
31-Jul-08	31					139.479 5917		
31-Aug-08	31					140.680 6659		
30-Sep-08	30					137.314 9188		
31-Dec-08	92	1.0255 555555	1.07835045 91	1.05090972 22	4312. 20	477.66	3834.54	8468.37
		555600 0000	906700000 0	2222000000				
31-Oct-08	31					158.912 5875		

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
30-Nov-08	30					155.772 7823		
31-Dec-08	31					162.977 2735		
31-Mar-09	90	1.0250 000000 000000 0000	1.10530922 06 704400000 0	1.02527777 77 7778000000	4312. 20	321.55	3990.65	4477.72
31-Jan-09	31					109.383 1125		
28-Feb-09	28					100.073 7863		
31-Mar-09	31					112.088 5974		
30-Jun-09	91	1.0252 777777 777800 0000	1.13324898 15 262700000 0	1.00000000 00 0000000000	4649. 65	171.93	4477.72	0.00
30-Apr-09	30					55.9715		
31-May-09	31					58.5601 8188		
30-Jun-09	30					57.4031 4602		
				5.25926302 46				

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
				827800000				

If the user makes a pre payment during one of the schedules, then based on the Pre-payment re-computation option specified system would either modify the EMI or modify the tenor.

Loan Amount	20000
Loan Value Date	31-Mar-08
Maturity Date	30-Jun-2009
Rate of Interest	10%
Payment Frequency	Quarterly
Compounding Frequency	Monthly
Interest Method	Actual/360
VAMI Re-computation	Balloon Payment
Prepayment done for Installment	30-Dec-2008
Prepayment Amount	5500

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
		1.0000 000000	1.00000000 00					20000
		000000 0000	000000000 0					
30-Jun-08	91	1.0252 777777	1.02527777 77	1.10530922 06	4312. 2	509.83	3802.37	16197.63
		777800 0000	777800000 0	7044000000				
30-Apr-08	30					166.666 6667		
31-May-08	31					173.657 4074		
30-Jun-08	30					169.502 7006		

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
30-Sep-08	92	1.025555555 555600000	1.0514793209 876500000	1.0777663040 1235000000	4312.2	417.48	3894.72	12302.91
31-Jul-08	31					139.4795917		
31-Aug-08	31					140.6806659		
30-Sep-08	30					137.3149188		
31-Dec-08	92	1.025555555 555600000	1.0783504591 906700000	1.0509097222 2222000000	4312.2	317.09	3995.11	7120.00
31-Oct-08	31					105.941725		
30-Nov-08	30					103.4070977		
31-Dec-08	31					107.744451		
31-Mar-09	90	1.025000000 000000000	1.1053092206 704400000	1.0252777777 7778000000	4312.2	179.49	4132.71	2987.29
31-Jan-09	31					61.31111111		
28-Feb-09	28					55.85464198		
31-Mar-09	31					62.32003843		
30-Jun-09	91	1.025277777 777800000	1.1332489815 262700000	1.0000000000 0000000000	3063.44	76.15	2987.29	0.00
30-Apr-09	30					24.89408333		
31-May-	31					25.9382		

Schedule Date	Days	Sch Factor	Installment	Installment Denom	EMI	Interest	Principal	Expected Principal
09						5183		
30-Jun-09	30					25.3176 8613		
				5.25926302 46				
				827800000				

If these changes are required to be effective on a particular date, not maintained previously, a fresh set of rates for that day is required to be maintained.

You can pick any active account from the Value Dated Amendments screen and apply the amendments for that account. You can also view or modify the amendments that are not yet applied for that account.

If there is no outstanding balance for an Open Line Loans, then in order to close the account, you should amend the maturity date. The account gets closed during that day's batch.

If the amendments result in a status change for the account, the system will update the current status for the account in the 'Derived Status' field. During end-of-day batch processing, it will update the 'User Defined Status' for the account with the worst status available for all accounts and loans for this CIF and post the required accounting entries for the change.

The screenshot shows the Oracle Value Dated Amendments interface. Key elements include:

- Form Fields:** Product, Branch Code (CHO), Account Number, User Reference, Product Category, Alternate Account Number, User Defined Status, Application Number, Mandatory Collateral Coverage (%), Derived Status.
- Navigation:** Main, Preferences, Components, Charges, Linkage Details, Advices, Rollover, Credit Score, Fields, Check List, Unidirecto.
- Customer/Loan Info:** Customer Id, Customer Name, Currency, Amount Financed, Book Date, Value Date, Effective Date, No of Installments, Unit (Bullet), Frequency, Installment Start Date, Due Date On, Maturity Type (Fixed), Maturity Date, Net Principal, Loan To Value, Index Exchange Rate, Subsidy Customer Id, Calculate Gross Principal, FNG Coverage %.
- Buttons:** Create Amendment, Enrich, Edit UDE Details.
- EMI Details:** EMI Frequency Unit, EMI Frequency, Minimum EMI, Maximum EMI, Base End Date.
- Effective Date:** Navigation controls (1of1) and a table with columns: Effective Date.
- User Defined Element Values:** Navigation controls (1of1) and a table with columns: User Defined Element Id, User Defined Element Value, Rate Code, Code usage, Resolved value.
- Footer:** Other Applicants, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, Inventory, SWIFT Message Details, Statistics, Unapplied Amendments, Liquidate Loans, Special Condition, Input By, Authorized By, Status, Authorization Status, Cancel.

Specify the account number for which the amendment needs to be. On querying an authorized CL account, the system displays all the basic details of the account. Unlock the record and specify the effective date of the amendment. Click the 'Create Amendment' button in order to make new amendments to loans.



The system nullifies the modified values if you try to amend loan details like amount finances, maturity date etc. without clicking 'create Amendment' button.

From this screen, you can modify the amount financed, which specifies the increase in amount, Rate or Principal effective a value date, and also the maturity date. Once you specify the amendments, the relative changes with regard to the same can be viewed in the other tabs of the Screen.

You can also select the re-computation basis for amendments from this screen. For example, if the re-computation basis is Change Installment, the amendments are applied by changing the Equated Monthly Installments keeping the tenor constant. If re-computation basis is Change Tenor, then the tenor is varied by keeping Installment constant.

Following are the amendments to the Value date effective loans accounts that you can perform through this screen:

- Value Date based changes to the Principal
- Value Date based changes to the Rates
- Value Date based changes to the Tenor of the Loan
- Changes to other parameters

You can change the Loan Tenor, Rate or Principal effective a Value Date from these screens. It also displays the schedules of the account.

The following information is captured:

Effective Date

This is the date as of which the changed values should be applicable.

Amount Waived

Specify the amount which can be provided as the discount to the customer. This will be waived from the charge computed. This amount cannot be greater than the charge amount.

8.7.1 Preferences Tab

Preferences maintained for the account are displayed here.

Value Dated Amendments

Product * _____ Branch Code CHO _____ User Reference _____
 Product Category _____ Account Number * _____ User Defined Status _____
 Application Number _____ Alternate Account Number _____ Derived Status _____
 Mandatory Collateral Coverage (%) _____

Main Preferences Components Charges Linkage Details Advices Rollover Credit Score Fields Check List Unidirecto

Cheque Book Facility Stop Disbursement **Liquidation**
 Passbook Facility Recalculate Annuity On Disbursement Auto Liquidation Auto
 ATM / Debit Card Packing Credit Reset Retry Count for Reversed Auto Liquidation
 Liquidate Back Valued Schedules Use Guarantor for Repayment Partial Liquidation
 Allow Bulk Payment Loan Statement Required Retries Auto Liquidation Days
 Amend Past Paid Schedules Notary Pre Confirmed

Intermediate **Track Receivable**
 Intermediary Initiated Auto Liquidation
 Intermediary Code _____ Manual Liquidation

Compare PPPO Tenor 0
 PPPO Tenor 0

Holiday Periods **UDE Rate Plan** **Bill Details**
 Edit Holiday Periods Start Date End Date Trade Reference
 Trade Reference
 Bill Due Amount
 Amount Available

Loan Statements **Recomputation Basis**

Other Applicants Assets Financials Internal Rate of Return Details MIS Events General Ledger Query Inventory SWIFT Message Details Statistics
 Unapplied Amendments Liquidate Loans Special Condition

Input By _____ Authorized By _____ Status _____
 Date Time Date Time Authorization Status

You can modify the following details:

Liquidation Mode

Specify the mode of liquidation from the drop-down list. The following options are available for selection:

- Auto
- Manual
- Component

8.7.2 Components Tab

In this tab you can modify the schedule preferences of your account. Select the components that you wish to modify from the list provided. You can amend the details of the selected component, after you click the 'Edit' button. The schedules are defaulted from Product maintenances at the time of account opening.

While making modification to schedule, follow the steps given below:

- Bullet schedule as well as end dates of schedules should be deleted before any amendment.
- If you want to use irregular schedule amounts instead of normal linear flow you need to maintain each schedule date separately.
- If you insert any schedule do not add end date.
- If number of schedules is '1' for the particular schedule record, then the frequency should be 'daily'.

Click 'Explode' button once you finalize your changes on the schedule. System calculates the missing parameters based on Product preferences.

 You can modify future dated schedules only.

Example:

Assume that your bank has signed a CL contract on June 1, 2010 with Big Inc. in amount of USD 10.000. According to the contract repayment schedule is irregular in following amounts:

July 1 - USD 2.000

August 1 – USD 5.000

September 1 - USD 3.000

As this schedule cannot be set automatically by the system you should use a respective linear product for account opening. Open the account in a normal way. After disbursement you can do the VAMI only.

In the components screen select 'Principal'. You should have 2 schedules, one normal and one bullet. Schedule amounts are 3.333,33 and 3.333,34 respectively.

First delete the bullet schedule and the end dates. Insert a row (using "+") and maintain it for the second schedule on August 1. Modify the amount of the first schedule, delete '3.333,33' and enter '2.000'.

Number of schedules should be '1' for both dates and frequency should be 'daily'.

After making these changes, click 'Explode'. The system will default end dates and bullet schedule based on your product preferences.

Liquidation Mode

The system defaults the mode of liquidation from the product level. However you can modify the same to indicate the mode of liquidation of the component from the drop-down list. The following options are available for selection:

- Auto
- Manual



This is applicable only if 'Liquidation mode' is selected as 'Component' at the account preference level

The system does not process any refund on rollover in respect of Annually Discounted Life/National Collateral Fund. The system builds a schedule from rollover date to annuity and marks as settled in rolled over loan, and also builds future annual schedules until new maturity date with due dates based on old value date.

8.7.3 Charges Tab

In order to calculate the charges that we would like to levy on an account, we have to specify the basis on which we would like to apply charges.

The Charges tab is displayed where you can view/modify the charges to be levied on the account.

The screenshot shows the 'Value Dated Amendments' window with the 'Charges' tab selected. The window contains several input fields for product, branch, and account information. The 'Charges' tab is active, displaying fields for component name, calculation type, currency, and due date. A 'Details' table is visible below, with columns for Event Code, Amount Settled, and Schedule Date. The table is currently empty. The bottom of the window shows a navigation bar with various tabs like 'Other Applicants', 'Assets', 'Financials', etc., and a 'Cancel' button.

You can capture the following details in this screen:

Amt. Waived:

The amount displayed here is the amount that needs to be waived as the discount offered to the customer.



Note the following:

In case of TAX_COMPONENT:

- If 'Gross Principal' check box is not checked, and debit account details are not CASA then system displays the following error message:
'Debit Payment Mode should be account with CASA account number'

- Debit Payment Mode should be account with CASA account number. On save system checks available funds in CASA account (mentioned in Debit Settlement Mode). If sufficient funds are not there in CASA account to clear tax amount, then system displays the following override message:

'Insufficient funds in CASA account to pay taxes'

For more details and the field explanation of each tab, refer to the section 'Creating a Loan Account' in 'Account Creation' chapter of this User Manual.

8.7.4 Unidirecto Tab

The Bearing Contract Details are captured here.

Specify the following details:

Bearing product code

It displays the bearing product code to be considered for special rollover on maturity.

Bearing Tenor

Specify the Tenor of the Bearing product code on SROL.

Bearing Tenor Unit

Select the tenor unit from the adjoining drop down list. Default value is 'Days'.

Final Maturity Date

It displays the Final maturity considering the bearing period and the holiday treatment on maturity.

User Defined Element ID

It displays the User Defined Element ID.

Effective Date

Specify the effective date.

Rate Code

Specify the rate code.

Code Usage

Select the code usage from the adjoining drop down list.

Rate Template

Specify the rate template.

User Defined Element Value

Specify the User Defined Element Value.

Component Name

It displays the component name.

Seq uence Number

Specify the sequence number.

Schedule Type

Select the schedule type from the adjoining drop down list.

Schedule Flag

Select the schedule flag from the adjoining drop down list.

Formula Name

Specify the formula name. The adjoining option list displays all the formula names maintained in the system. You can choose the appropriate one.

First Due Date

Specify the first due date. The adjoining option list displays all the first due dates maintained in the system. You can choose the appropriate one.

No Of Schedules

Specify the number of schedules.

Frequency

Specify the frequency.

Units

Select the Units from the adjoining drop down list.

Schedule End Date

Specify the schedule end date. The adjoining option list displays all the schedule end dates maintained in the system. You can choose the appropriate one.

Capitalized

Check this box to indicate that it is capitalized.

Waiver Flag

Check this box to indicate that it is waiver.

Schedule Start Date

Specify the schedule start date.

- During loan creation, system is enhanced to default the bearing product from the discounted product, as defined above. This is under Unidirecto tab.

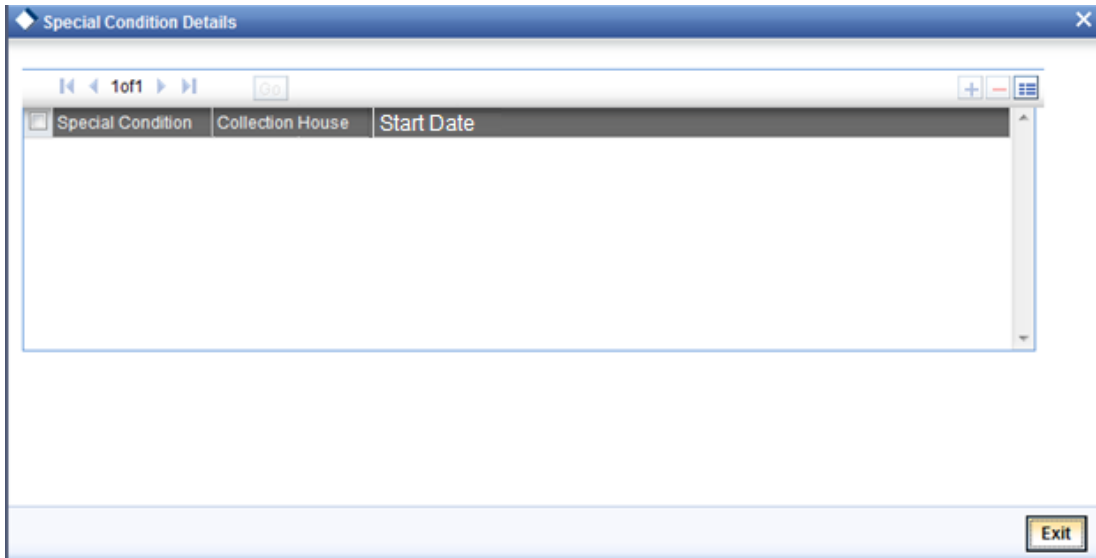
- Provide all other details during account creation, Bearing Tenor and Bearing Tenor Unit are used to calculate the Final maturity date. Final maturity date is calculated using current maturity date as value date and Bearing Tenor and Bearing Tenor Unit. Holiday treatment from bearing product is used to calculate Final maturity date. If the definition of tenor of loan is through Bearing Tenor/ Bearing Unit, system builds one bullet schedule for the Bearing tenor.
- To have bearing loan with schedules (regular or irregular), define the tenor by availing the component schedule parameter. Both Bearing Tenor / Bearing Unit parameter and Component Schedule details are not allowed. During the loan creation system builds discounted schedule using component schedule details provide for each component.
- “National Collateral Fund” and “Life Insurance” component are calculated using the Final maturity date (Single Premium). SDE, FINAL_MATURITY_DATE is used for the same.



Commission billing frequency for “National Collateral Fund” for Unidirecto Product can be any of “Annual Discounted” or “Discounted – Short Term”.

8.7.5 Viewing Special Condition Details

You can view the special condition details using the ‘Special Condition Details’ screen. You can invoke this screen by clicking the ‘Special Conditions’ button in the ‘Value Dated Amendments’ screen.



The system displays the following details:

- Special Condition
- Collection Agency
- Start Date

8.7.6 Viewing Value Dated Amendment Details

You can view the value dated amendment summary using 'Value Dated Amendment Summary' screen. To invoke this screen, type 'CLSACCVM' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.

The screenshot displays the 'Value Dated Amendment Summary' application window. The window title is 'Value Dated Amendment Summary'. The interface includes a search form with the following fields and controls:

- Account Number (text input)
- Application Number (text input)
- Product (text input)
- Value Date (date picker)
- Amount (text input)
- Contract Status (dropdown menu)
- Branch Code (text input)
- Customer Id (text input)
- Alternate Account Number (text input)
- Maturity Date (date picker)
- Currency (text input)
- Authorized (dropdown menu)

Below the search form are buttons for 'Search', 'Advanced Search', 'Refresh', and 'Reset'. A table below shows search results with columns: Account Number, Branch Code, Application Number, Customer Id, Product, Alternate Account Number, and Value Date. The table is currently empty. At the bottom right of the window is an 'Exit' button.

You can click 'Search' button to view all the pending functions. However, you can filter your search based on any of the following criteria:

Account Number

Select the account number from the option list.

Application Number

Select the application number from the option list.

Product

Select the product code from the option list.

Value Date

Specify the value date.

Amount

Select the contract amount.

Contract Status

Select the status of the contract from the drop-down list.

Branch Code

Select the branch code from the option list.

Customer Id

Select the customer Id from the option list.

Alternate Account Number

Select the alternate account number from the option list.

Maturity Date

Specify the value date.

Currency

Select the currency of the transaction from the option list.

Authorized

Select the authorization status of the contract from the drop-down list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Account Number
- Branch Code
- Application Number
- Customer Id
- Product
- Alternate Account Number
- Value Date
- Maturity Date
- Amount
- Currency
- User Defined Status

- Contract Status
- Authorized

Click 'Advanced Search' to display the screen below:

You can query a contract based on any of the following details:

- Account Number
- Branch Code
- Application Number
- Customer Id
- Product
- Alternate Account Number
- Value Date
- Maturity Date
- Amount
- Currency
- User Defined Status
- Contract Status
- Authorized

8.7.7 Amending Commitments

Once a Commitment is entered and authorized, changes to the Commitment account can be done through the 'Commitment Amendments' screen. These amendments are based on an effective date and hence are called Value Dated Amendments (VAM).

Oracle FLEXCUBE allows you to change the credit limit using the value dated amendments screen on or before the maturity date of the loan account. You can also change the maturity date for an open line loan using the value dated amendments screen with a back valued effective date.

For open line loans, the account rollover is restricted.

You can invoke this screen by typing 'CLDCMTVM' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot displays the 'Value Dated Amendments' interface. The top section contains fields for Product, Branch Code, User Reference Number, Product Category, Account Number, User Defined Status, Application Number, Alternate Account Number, and Derived Status. Below this is a tabbed menu with 'Main' selected. The 'Main' tab includes fields for Customer Id, Customer Name, Currency, Amount Financed, Book Date, Value Date, Effective Date, No of Installments, Unit (Bullet), Frequency, Installation Start Date, Due Date On, Maturity Type (Fixed), Maturity Date, Net Principal, Loan To Value, Index Exchange Rate, Subsidy Customer Id, and a 'Calculate Gross Principal' checkbox. A 'Create Amendment' button is located below these fields. The 'EMI Details' section includes EMI Frequency Unit, EMI Frequency, Minimum EMI, Maximum EMI, and Base End Date. The 'Effective Date' and 'User Defined Element Values' sections each have a table with columns for Effective Date, User Defined Element Id, User Defined Element Value, Rate Code, Code usage, and Resolved value. A bottom navigation bar includes tabs for Other Applicants, Assets, Financials, Internal Rate of Return Details, MIS, Events, General Ledger Query, Inventory, SWIFT Message Details, and Statistics. Below this bar are fields for Input By, Authorized By, Status, Date Time, and Authorization Status, with an Exit button.

For more details on the field explanation of each tab refer section 'Creating a Commitment Account' in the 'Account Creation' chapter of this User Manual.

8.7.8 VAMI Simulation

Value Dated Amendment simulation calculation function is used to get the details of the VAMI charge before applying the same. You can invoke this screen by typing 'CLDSIMVD' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Value Dated Amendments Simulation' window. It has a title bar with a close button. Below the title bar is a navigation area with 'Go to Page' and navigation arrows. The main content area is divided into several sections. At the top, there are input fields for 'Branch *', 'Account Number *', 'Product Code', 'Product Category', 'Application Number', 'Alternate Account Number', 'Derived Status', 'User Defined Status', 'User Reference Number', and 'Authorization Status'. Below these fields is a row of tabs: 'Amendments', 'Account Details', 'Default', 'Check List', 'Fields', 'Components', 'Charges', 'Linkages', 'Advices', and 'Credit Score'. The 'Amendments' tab is active, showing a 'Modify Unapplied Amendments' section with a 'View/Modify' button and a 'Create New Amendment' section with an 'Effective Date' field and a 'Create New Amendment' button. At the bottom of the window, there are tabs for 'MIS', 'GL Balance', 'IRR Details', 'Events', 'Installment', and 'SWIFT Message Details'. The footer contains 'Input By', 'Date Time', 'Authorized By', 'Date Time', 'Contract Status', and an 'Exit' button.

The Value Dated Amendment Simulation screen is similar to 'Amendments' screen.

For more details on the field explanation refer section 'Creating a Loan Account' in 'Account Creation' chapter of this User Manual. Also refer 'Loan Amendments' section in this chapter.

8.7.8.1 Maturity Date Change

The Amendment of the Loan account maturity date, effective on a certain date can be performed through this function. Future schedules are affected based on the effective date. This assists in providing schedules as per the customer's choice. Hence, even if an extension is sought, the interest increase in the installment can be postponed till a certain period to facilitate customer's liquidity situation.

8.7.8.2 Version Creation

Version numbers are created for a loan account during any one of the following three instances:

- When amendments made to the Account parameters – Principal, Rate and Tenor
- Rollover of the Loan product

8.8 Processing of Payments

The system will consider uncollected and overdraft limits based on loan account preferences in case of auto liquidation. In case of partial liquidation through ALIQ, the system will derive the payment amount from the available balance considering GMF, i.e. the available balance is equal to payment amount + corresponding GMF.

In payments, allocation processing checks Group ID maintained for components in liquidation order. For each component being processed, all the components under the same Group ID will be allocated before moving to the next component in liquidation order.

You must maintain the External Reference Number and it is mandatory for payments.

- For payments initiated through front end, the system updates a unique alphanumeric value against each payment. The format is FLEXPRODYDDDSEQU; where
 - FLEX : Hardcoded value.
 - PROD : Product for the account for which payment is made
 - YYDDD : Julian number
 - SEQU : Product sequence
- For payment initiated through gateway, a tag XREF is availed and it is mandatory.

During payment with any re-computation basis, the system will validate payment amount against total outstanding amount to liquidate loan, this is with consideration of accrued interest and refund of discounted components, if any. If the payment is equal or greater than the total outstanding, the payment will be applied directly towards liquidation and the loan status will be marked as Liquidated. If the payment amount is less than the total outstanding amount, the payment processing will continue with recomputation basis as availed during payment. .

For Reduce Tenor and Reduce EMI, the interest due till previous day is collected as per liquidation order/product parameter of Liquidate across schedules/components.

For the re-computation basis 'One Installment' also, the interest till previous day is always collected as per liquidation order/product parameter of Liquidate across schedules/components.

For the re-computation basis 'Next Installments', all overdue schedules including penal are collected. No amount is allocated to any accrued amount of the current schedules. All excess amount is parked in the liability GL.

'Settle Principal Expected' checkbox is accepted for Recomputation basis only for Reduce EMI and Reduce Tenor.

On back value dated payments (any other back value dated events also), all accounting entries passed after the value date of the back-value dated payment will be reversed. The system does not do any adjustment to the status of the loan.

- The system should perform the catchup accrual only for the interest amount that is being paid and not available as an accrual balance. This catchup accrual is passed in corresponding GL's as per the loan status. In LIQD entries, these catchup accruals are knocked off.
- During EOD, the system should do accrual and status change parallelly. The system has to accrue the interest (can be in real/contingent or both) until today in appropriate GL's considering the daily accrual values and status changes as if the payment has not happened.

8.8.1 Recomputation

The system can apply recomputation basis 'Reduce Tenor and 'Reduce Installment' towards non-amortized loans.

Reduce Installment for non amortized loan are driven by reducing the principal of future schedules proportionately (both the cases where principal is regular and irregular across schedules), after collecting the due/overdue balances, if any. The following formula is used:

- $PDFC = VAKE/SCVAR$
 - $VAKD = \text{Old Principal Schedule Amount} * (1 - PDFC)$

Where,

- PDFC - Ratio to which the principal is to be reduced.
- VAKE - Amount to be allocated towards principal
- SCVAR - Principal outstanding
- VAKD - Principal component of a given schedule

8.8.1.1 Recomputation Basis - Next Installments

An amount tag 'PRINCIPAL_NEXT' and the role code 'NEXT INST_GL' are availed to process the payment towards liability GL.

The accounting entry for MLIQ is availed for a principal component as,

Event code	Dr/Cr Indicator	Amt Tag	Account_role_code	GL
MLIQ	D	PRINCIPAL_LIQD	DR_SETTL_BRIDGE	1101XXXX
MLIQ	C	PRINCIPAL_LIQD	LOAN_ACCOUNT	1401XXXX
MLIQ	D	PRINCIPAL_NEXT	DR_SETTL_BRIDGE	1101XXXX
MLIQ	C	PRINCIPAL_NEXT	NEXT INST_GL	2101XXXX

The system allocates the payment towards dues and over dues only, considering recomputation basis. If the payment is equal or greater than total outstanding, the payment has to be applied directly towards the loan and loan has to be closed.

In case payment is made on current schedule due date, the system will collect overdue/due schedules and park the remaining balance towards the liability GL. Accrued interest will not be collected for recomputation basis 'Next Installment'. In case the payment is made on a day different than the schedule due date, the system has to accept only the overdue amount and park the remaining balance towards the liability GL.

The system derives the pending payment amount for the amount tag 'NEXT'. This derivation is restricted only for recomputation basis 'Next Installment'. The system logs the amount calculated for the aforementioned amount tag for batch process.

The following SDE is available to derive DR_SETTL_BRIDGE during batch process.

SDE	DESCRIPTION
NEXT_INST	This SDE will return a value 'Y' when payment is initiated through batch process to perform payment from liability GL.

Role to head mapping for DR_SETTL_BRIDGE should be defined with this SDE to be maintained with the same liability GL.

ACCOUNT_ROLE_CODE	CONDITION	ACCOUNTING HEAD
DR_SETTL_BRIDGE	NEXT_INST='Y'	2101XXXX

System stores next installment GL balance at account level. On each next installment payment, the amount derived for PRINCIPAL_NEXT is added to the liability GL balance amount.

During batch process, the system updates the settlement amount with minimum of balance in the next installment GL or due amount as on batch processing date.

In case if a payment comes while there is a balance in the Next installment GL,

- If payment is 'Cover to Next Installment', the system will park the payment into the Next installment GL. The batch first processes the earliest next installment payment. There is a probability that 1 or more payments can be processed in the batch.
- If payment is different than 'Cover to Next Installment', corresponding process has to be followed keeping the liability balance intact.
- In case of a payment amount with any re-computation basis (other than 'change installment') and the parked amount in Liability GL results in a pre-closure, the system will display an error message to change the re-computation basis to 'Change Installment'. If the resultant payment (with re-computation basis as 'Change Installment') exceeds the total outstanding, the system will refund the excess amount through NRES amount tag.

- In case of a payment amount with any re-computation basis along with inclusion of Next installment GL balance doesn't liquidate the loan, the system will apply the payment only for the payment amount with its recomputation basis.

In case of any changes in the schedule structure, the payments will be applied on the schedule due dates automatically. The batch process has preference over ALIQ/Residual payment in the BOD. In case of any rollover happening to a loan and there is a pending amount in the next installment GL, it should be maintained and should be applied to the schedule due date.

The batch processes payments from liability GL on every schedule due date of the loan for payments that was accepted with re-computation basis as 'Cover to Next Installments'. This batch is configured to run before ALIQ and residual automatic payment. The system picks only those accounts wherein liability GL balance is greater than '0'.

8.8.1.2 Recomputation Basis - One Installment

Further to settling all overdues and dues, the system will

- Resolve next installment days and percentage; derive if payment is to be applied on current installment. Settle the dues of current installment accordingly.
 - Next Installment Days - If the days between the payment date and current schedule end date is lesser than or equal to Next Installment Days, the payment will be towards current schedule. If the days between the payment date and current schedule end date is greater than Next Installment Days, the interest accrued till date will be liquidated and the remaining payment amount will be paid towards principal with Reduce Tenor.
 - Next Installment Percentage - If the payment amount is less than the Next Installment Percentage of current schedule amount due, the interest accrued till date will be liquidated and the remaining payment amount is paid towards principal with reduce tenor. If the payment amount is equal to or greater than the Next Installment Percentage of current schedule amount due, the payment will be towards current schedule, and if the payment amount is greater than current schedule due, the payment will be applied to the due amount and the excess amount will be applied to Principal with reduce tenor
 - Using the aforementioned parameters, if the payment is allocated to the current schedule, the system will allocate to the components as per the liquidation order for the current schedule. If the components of an installment are partially allocated during payment, then system will retain the current scheduled due date as there is a remaining portion of components to be paid, and system will continue to perform interest re-calculation/accrual on the balance principal due amount. If the principal is allocated completely for the current schedule, the system will apply the excess amount to reduce the further installments. Split interest schedule from schedule start date to payment date and build a schedule from payment date to next schedule due date.
- Using aforementioned parameters, if the Payment is allocated to the reduce tenor, the system will allocate to the accrued interest for the current schedule and the excess amount will be allocated to principal with reducing tenor keeping the current schedule due date and recalculating the current schedule interest to be paid.
 - Rate code value effective on schedule start date should be picked up for the schedule start date at the time of payment.
 - Recalculate interest with revised rate conversion
 - Pending payment amount will be applied with reduce tenor.

If the interest of the extended schedule exceeds EMI, the system will have the spiked amount only with an interest component in that extended schedule. All future schedules will be recalculated with the same EMI. This process will eventually affect the bullet schedule resulting in a maturity date reduction or changed amount in the bullet schedule.

If interest of the extended schedule does not exceed the EMI, the system will adjust principal of immediate schedule, eventually impacting bullet schedule resulting in a maturity date reduction or changed amount in the bullet schedule.

Next Instalment Days	Next Instalment Percentage	
Difference between Schedule Due date and Payment Date <= Parameter Days then TRUE Else FALSE	parameter %ge of schedule due <= Payment Amount then TRUE Else FALSE	
FALSE	FALSE	Apply payment to reduce tenor.
TRUE	TRUE	Pay current schedule and excess amount towards reduce tenor.
FALSE	TRUE	Pay current schedule and excess amount towards reduce tenor.
TRUE	FALSE	Pay current schedule and excess amount towards reduce tenor.

In case of discounted loans, the recomputation basis which is permitted from front end is 'Change Installment' only. If payment for such loans is received from front end with any other recomputation basis, the system will display an error message. In case of payment through gateway, if the recomputation basis is 'one installment', the system will consider it as 'Change Installment' and proceed accordingly. In case of payment from gateway with recomputation basis other than one installment/change installment, the system will display an error message.

8.8.2 Refund

The following SDEs are availed towards refund of discounted components:

SDE	Description
REFUND_AMT	This SDE will return the refund amount for discounted components based on below factors For Main Interest- <ul style="list-style-type: none"> • Re-computation Basis

	<ul style="list-style-type: none"> • Refund option <p>For Insurance</p> <ul style="list-style-type: none"> • Based on payment yielding to liquidation. <p>Calculation of Main Interest refund is based on certain formulas. Refund amount for annually discounted life insurance is calculated from payment date.</p>
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This SDE is used to define expression for refund component. On performing 'Populate Due' during payment processing, the system will build refund amount against each refund component with assumption of complete payment. Further to availing settlement details, during allocating settlement amounts to components, the system will further recalculate refund amount for each refund component. If payment amount yield to liquidation of loan, the system will restrict recalculation of refund amount for refund components.

The Refund option by default is 'N' for the discounted components. If refund is not opted for a component, the settlement mode 'Refund' will be updated with refund amount as settlement amount.

If payment with recomputation option other than 'Next Installment' yields in refund of discounted interest

- The system will perform a payment towards principal component from the amount derived based on predefined formulas in requirement.
- System will initiate recalculation of all components (resulting in recalculation of refund amount too).
- Payment will be initiated with revised payment amount.

The below mentioned maintenances are expected for the following cases:

- For cases where an excess payment done towards a loan exceeding total outstanding.
- For cases where Refund is set as 'Y' for discounted refund components where the Refund amount is refunded back to the customer.

Under 'Branch/Currencies Restrictions' the 'Negative Residual Amount is defined with a huge number. The following accounting entry must be maintained along 'MLIQ' event.

ACCOUNTING ROLE	AMOUNT TAG	Dr/Cr
DR_SETTL_BRIDGE	PRINCIPAL_NRES	Dr
UCUSTPAYABLEGL	PRINCIPAL_NRES	Cr

8.8.3 National Collateral Payments

FNG collateral coverage percentage is captured in loan account; this will be defaulted whenever (creation/amendment) FNG collateral is attached to the loan. This field is a display field on loan creation and no changes can be done.

On Amendment operation, the system will allow you to modify the FNG collateral percentage at account level. On Amendment operation if you disassociate the FNG collateral and attach a FNG collateral, the system will default Coverage percentage from collateral. In case you do not associate the collateral, you will need to modify the value to zero.

During FNG payments, the validation is added to check no future principal amount is due. If not, the payment will be rejected. The system will only check if there exists any principal component in future schedules.

During payment, 'Payment by Guarantor' option is available to indicate payment through FNG. If loan is in special condition and direct payment is not allowed, then also system will skip special condition check and will apply the payment on loan.

'Recovery Required' option is available to track future payments for recovery of Guarantor amount.

The system allocates payment amount towards the principal component only, liquidating latest overdue to oldest overdue.

An adhoc charge with the Guarantor Amount is booked using the adhoc charge component with type 'Guarantor Recovery' without accounting entries. System will log this Guarantor payment.

During payments, further to payment through Guarantor, the system allocates a portion of the settlement amount towards this adhoc charge based on the below formula on payment amount with accounting entries and coverage percentage of Guarantor collateral and another portion towards the other components of the loan.

- IF ($SFNG \geq PCLIENTE * \%GFNG$)
 - $PorciónFNG = PCLIENTE * \%GFNG$
 - $SFNG = SFNG - PorciónFNG$
- ELSE
 - $PorciónFNG = SFNG$
 - $PorciónBANCO = PCLIENTE - PorciónFNG$

Where,

- SFNG – The total amount that is to be paid towards FNG.
- %GFNG – The collateral coverage percentage that is linked to the loan.
- PCLIENTE– The amount paid by the customer.
- PorciónFNG – The FNG portion of payment amount.
- PorciónBANCO – The portion of payment amount towards loan payment.

8.8.4 Indirect Payments

The system executes a user policy to derive the special condition of account at the time of payment. The payment will display an error message if an account is in special condition which has ALIQ/MLIQ as restricted events. You can initiate the payment through the 'Indirect Payment' screen for such payments.

If the account is in special condition which has ALIQ/MLIQ as restricted events and the payment is through gateway interface, the payment will be directed through 'Indirect Payment' screen. The system uses multimode settlement feature of loans to process all payment from different settlement modes to indirect payment GL. To reverse indirect payment, i.e. to reverse the payment with settlements, you have to reverse the indirect payment from 'Indirect Payment' screen.

Through the 'Massive Payment' screen, you can query pending indirect payments based on Customer ID, Account Number, Branch Code, Product Code, Value Date, Special Condition and Loan Status. Special Condition and Loan Status reflects details as on payment received date. You can pick specific indirect payments and apply towards loan.

- System applies the payment with same parameters sent as per the original payment details captured during indirect payment. For e.g Value Date, Recomputation basis will be retained.
- System avails indirect payment GL as settlement account for processing payments initiated from massive payment interface.
- While applying payment on a loan, if there exists any unprocessed indirect payment for a given account with a reference number less than the one being processed, the system will display an error message.
- If the payment is towards a loan in 'Write-Off' status, reason code is mandatory.
- If there is a pending Indirect payment, the system will display an error message while removing special conditions on a loan.

For reversal of payment initiated through indirect payment, you will have to reverse the payment from the 'Indirect Payment' screen. The reversal will mark the indirect payment as unprocessed and will be available in the 'Massive Payment' screen.

To reverse complete payment, i.e. to reverse the payment with settlements, you will have to first reverse payment from payment interface and reverse the indirect payment from indirect payment interface.

Reversal Reason Code will be captured at the time of reversal of indirect payment and will be mandatory. This reversal reason code is captured at payment level and will default to reversal reason code at settlement level.

The batch is executed on the last working day of the month. This batch process picks all pending indirect payments and processes them, excluding the loans in write off status. While applying such payments validation of 'Maximum Days For Back Value Dated Payments' will be excluded.

8.8.5 Reversal

The system captures the reversal reason code at payment level, during reversal of a payment.

- If reversal of payment is initiated through front end, the system will update the reversal reason code available at settlement level into payment level reversal reason code.
- If reversal of payment is initiated through gateway, the system will default the reason code available at payment level into settlement level reversal reason codes.

For reversal of payment initiated through gateway, the system reads the XREF tag to identify the payment to be reversed. This is limited for the same day's transaction, i.e. transaction initiation date.

If the payment with XREF is not found, the system will validate against an indirect payment. If found, the system will reverse the indirect payment. Here, there is no special treatment for reason code. This is absolute reversal of settlements.

Value date of payment that is being reversed is validated against 'Maximum Days for Payment Reversal'. If value date is older to parameterized days, the system will reject reversal of payment.

'Maximum Days for Payment Reversal' is derived as number of working days.

Reversal reason codes are mandatory for reversal of payment. Reversal reason codes can be maintained in the 'Cheque Type – Reversal/Reason Code Maintenance' screen. You also need to maintain a code 'RVXP' as the type in the 'Limit Types' screen. All reason codes which require a different treatment for reversal should be added with this code.

The system dynamically picks the Debit Settlement Bridge as maintained in the role to head mapping rules overwriting the initial settlement transaction for those reason codes mapped against RVXP. Reversal of settlement is also restricted for such reason codes. The SDE REVERSAL_REASON is available to define rules in role to head mapping, based on which a GL can be defined for a specific reason code. The same would be applicable for indirect payments that are reversed through FC front end capturing the Reason Codes.

On reversal of payment (any other reversal events also), the system recalculates the schedule amounts for the components. All accounting entries passed after the value date of the reversed payment is reversed. The system does not do any adjustment to the status of the loan.

- In case of any new/re-application of payment happens on the same day of payment reversal before EOD, the system will perform the catchup accrual only for the interest amount that is being paid and not available as an accrual balance. This catchup accrual will be passed in corresponding GL's as per the loan status. In LIQD entries, this catchup accruals will be knocked off.
- In case of no payments booked on the same day of payment reversal, then in EOD, the system will do accrual and status change parallelly. The system has to accrue the interest (can be in real/contingent or both) until today in appropriate GL's considering the daily accrual values and status changes as if the payment has not happened.

System will display an error message if the reversal of payment is initiated through gateway and if the final payment is already applied to loan using massive payment screen.

- System will reverse the Refund also while reversing a payment which had refund.
- System will reverse the Residual payment, if any.

- System will update the Limits/Collaterals and their accounting entries. If FNG/FAG is in closed status, the reversal/reapplication of payment will not update the collateral.

8.9 Viewing Account Version History and Reversal

Multiple versions created for a loan account can be viewed through the 'Account-View History' screen. Reversal of operations to previous version is supported for Rollovers and Amendments that create a new version. You can invoke this screen by typing 'CLDACHST' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot displays the 'Account History' application window. At the top, there are navigation controls and a 'Go to Page' field. Below this, there are several input fields for account identification: Branch, Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, User Defined Status, User Reference Number, and Authorization Status. A menu bar includes 'Main', 'Account Details', 'Default', 'Check List', 'Fields', 'Components', 'Charges', 'Linkages', 'Advices', and 'Credit Score'. The 'Account Details' section contains fields for Customer Id, Customer Name, Currency, Amount Financed, Net Principal, Loan to Value, Value Date, Subsidy Customer Id, Maturity Date, Index Exchange Rate, Payment Mode, Bill Reference Number, Bill Outstanding, Amount Available, and Commitment Type (Revolving/Non Revolving). There is also a 'Promotions' table with columns for Promotion Type, Promotion Id, Beneficiary, and Priority. At the bottom, there are tabs for 'MIS', 'GL Balance', 'IRR Details', 'Events', 'Installment', and 'SWIFT Message Details'. A footer area includes 'Input By', 'Date Time', 'Authorized By', 'Date Time', 'Contract Status', and an 'Exit' button.

The CL module has the following features:

- Oracle FLEXCUBE CL module Loan accounts have in-built versioning features.
- Contract parameters and hence the loan behaviour are modified based on operations such as Value dated amendments, Contract amendments, Rollovers etc, thus creating a new version.
- Any version of the loan can be backtracked sequentially to a previous configuration by saving the versions in history and by changing the events diary appropriately.
- This can be viewed by scrolling to the appropriate version number.
- Oracle FLEXCUBE supports an incremental reversal of contract version. While reversing, all the events will be reversed and the balances are appropriately affected.
- When you click Reversal icon in the toolbar, the options presented are Entire Contract and Current Version.
- For a single step reversal, all authorized entries and maintenances are reversed through this operation. A new version is created and a new event REVV – Reverse Version is triggered.
- It is also possible to forward track the same changes after back tracking

- If the entire contract is to be reversed, REVC fires when the version to be reversed is the First version.

Refer the 'General Maintenance' Chapter of this User Manual for further information on the 'Account Details Screen' and 'Version Control'.

8.9.1 Default Tab

The default details maintained for the account are displayed here.

The screenshot displays the 'Account History' application window. At the top, there are search and filter fields for Branch, Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, Contract Status, User Reference, and Auth Status. Below this is a tabbed interface with the 'Default' tab selected. The 'Default' tab contains several sections of controls:

- Account Details:** A list of checkboxes including 'Cheque Book', 'Amend Past Paid Schedule', 'Atm Facility', 'Passbook', 'Liquidate Back Valued Schedules', 'Stop Disbursement', 'Notary Pre Confirmed', 'Packing Credit', 'Recalculate Annuity on Disbursement', and 'Loan Statement Required'.
- Rollover:** Radio button options for 'Auto', 'Manual', 'Product', and 'Contract' under 'Rollover', 'UDE Rollover', 'Schedule Basis', 'Rollover Type', and 'Allow Rollover'. There is also an 'Amount' input field.
- Compare PPPO Tenor:** Input fields for 'Compare PPPO Tenor' and 'PPPO Tenor'.
- Liquidation:** A 'Liquidation Mode' dropdown set to 'Auto', and checkboxes for 'Reset Retry Count For Reversed Auto Liquidation' and 'Partial Liquidation'.
- Retries for Auto Liquidation:** An input field.
- Intermediary Details:** A checkbox for 'Intermediary Initiated' and an 'Intermediary Code' input field.
- Rollover Components:** A list box with a '+' and '-' button, currently empty.
- Loan statement:** Input fields for 'Frequency', 'Start Date', and 'Frequency Unit'.

At the bottom of the window is a navigation bar with tabs: 'MIS', 'GL Balance', 'IRR Details', 'Events', 'Installment', and 'SWIFT Message Details'. Below the tabs are fields for 'Input By', 'Authorized By', and 'Contract Status' (with an 'Authorized' checkbox). An 'Exit' button is located in the bottom right corner.

8.10 Manual Status Change

The status change can also be triggered manually. The status change can also be done with a value date which can even be in the past.

You can invoke the 'Manual Installment Status Change' screen by typing 'CLDMSTCH' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a window titled "Manual Status Change" with the following fields and controls:

- Branch * (text input)
- Effective Date * (date input with a calendar icon)
- Charges (button)
- Account Number * (text input with a dropdown arrow)
- Current Status * (text input with a dropdown arrow)
- New Status * (text input with a dropdown arrow)
- Input By (text input)
- Date Time (text input)
- Authorized By (text input)
- Date Time (text input)
- Contract Status (text input)
- Authorized (checkbox)
- Exit (button)

The following details are captured here:

Branch Code

Enter the branch code of the account for which the status will be manually changed in this field.

Account Number

Select the account number of the account which needs a status change in this field by clicking the adjoining option list. A list of values is displayed. Double click on a value to select it.


Current Status

The system displays the current status of the Account in this field.

New Status


Select the new status of the account by clicking the adjoining option list. A list of values appears. Double click on a value to select it.

The valid values are active, dormant, closed and so on.

 This is a mandatory input.

Effective Date

Enter the date of the new status for the account comes into effect in this field. This is a mandatory input.

 When a change in status is done manually for an account, the system will post the required accounting entries for the change immediately.

8.11 Processing Write-Off Status

Oracle FLEXCUBE handles 'Write-off' as a separate 'Status' with highest adversity level. If the status change has to be on a specific date, then you can manually change the status and move the account to 'Write-off' status. The system also maintains accounting entries for the transfer of the balance from the normal/real GLs to the contingent GLs. When status changes to 'Write-off', 'Contingent Accrual' option is selected for 'Accrual Preferences' to stop the accrual on the normal/real GL and continue the accrual on the contingent GL.

Oracle FLEXCUBE maintains an appropriate rule for the Status Change, Payment, and Accrual events based on the accounting entries and appropriate 'Role to Head Mapping' for the accounting roles, to enter the Real or the Contingent GL based on Contract Status.


8.11.1 Partial Write Off

The bank considers writing off a loan when a customer is in arrears for a very long time. It then moves the status of such loan to 'Write Off' which is the worst status for a Loan. Oracle FLEXCUBE system follows the normal liquidation order for write offs.

The CL module in Oracle FLEXCUBE allows for writing off a loan partially. You can then at any point of time irrespective of the contract status write off a partial amount of the loan.

The following points are noteworthy in a Partial Write Off scenario:

- During a Partial Write Off a transaction triggers the movement of Principal and Income Receivables.
- A customer is liable to pay the complete outstanding amount against a loan even though a partial amount is written off. The bank just uses the Partial Write Off for moving balances from one GL to another.
- A Manual Write Off allows you to choose the amount to be written off.

 A Partial Write Off does not necessarily change the status of a loan but that of the ledger to the extent of partial write off amount.

Whenever a partial write off is done on a loan account, the PWOF event is triggered. Based on the accounting entries maintained for PWOF event at the Product level accounting entries will be booked. For all Credit Legs maintained for the PWOF event you should choose to split balances. Split Balances maintained for the Credit Legs of the PWOF Event are always 'YES'.

Amount Tag <COMPONENT_NAME>_PWOFF is made available for framing accounting entries towards Real GLs movement while Amount Tag <COMPONENT_NAME>_PWOFF_CONT is made available towards framing accounting entries for Contingent GL Movement.

Some sample amount tags and accounting roles available for framing accounting entries for the PWOFF event are as shown below:

Accounting Role	Amount Tag
MAIN_INTEXP_NORM	MAIN_INT_PWOFF
MAIN_INTREC_NORM	MAIN_INT_PWOFF
LOAN_ACCOUNT_OVD1	PRINCIPAL_PWOFF
PRINCIPALEXP_OVD1	PRINCIPAL_PWOFF
PRE_PENEXP_NORM	PRE_PEN_PWOFF
PRE_PENREC_NORM	PRE_PEN_PWOFF
CONT_W_DOUB	MAIN_INT_PWOFF_CONT
CONT_SUBS	MAIN_INT_PWOFF_CONT

For more details on maintaining events and accounting entries at Product level refer section titled 'Events Tab' and 'Defining Accounting Entries' respectively in the chapter titled 'Defining Product Categories and Products' in this User Manual.

8.11.1.1 **Manual Partial Write Off**

A partial write off on a loan account is possible at any time during the life cycle of a CL contract irrespective of its status. You can manually initiate a partial write off for a loan account using the 'Partial Write Off' screen. You can invoke the 'Partial Write Off' screen by typing 'CLDPWOFF' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a software window titled "Partial Write Off". The window has a blue header bar with a diamond icon on the left and standard window controls (minimize, maximize, close) on the right. The main area contains two columns of input fields. The left column includes "Branch", "ESN", "Effective Date", and "Write-off Percentage", with a "Calculate" button positioned below the last field. The right column includes "Account Number *", "Current Status", and "Partial Write Off Amount". At the bottom of the window, there is a light blue footer area containing "Maker Id", "Checker Id", "Contract Status", "Date Time", and "Date Time" fields. To the right of these fields is a checkbox labeled "Authorized" and an "Exit" button.

The following details are captured here:

Branch Name

The current branch code is defaulted here. You can initiate a Partial Write Off only from the current branch.

Account Number

Select the appropriate account number from the option list provided. The option list displays all the accounts belonging to the current branch.

Effective Date

This is the date from which the partial write off on the loan account should become effective. The current application date is defaulted here.

Current Status

The current status of the selected loan account is displayed here.

Write Off Percentage

Specify the percentage of loan amount that has to be partially written off and click 'Calculate' to allow the system to determine the write off amount basis the total outstanding amount. This is optional.

Partial Write Off Amount

Specify the loan amount to be partially written off. If you have already specified the write off percentage then system will calculate the write off amount calculated based on the percentage provided on total outstanding.

Saving the write off transaction triggers the PWOF event and system passes accounting entries based on the accounting entries maintained at the product level in accordance with the account status. If the CL account currency and component currency are different, accounting entries are always passed in the component currency.

Upon executing a write off, the amount specified is split across components based on the liquidation order..The account entry is then passed for components with the latest severity respectively, so that such balance is picked up first if subsequent payment happens. For subsequent payments after a write off, system first considers the previously written off balance and then the written off amount for balancing.



The write off amount is split across components and not schedules.

In the scenario of a status change after write off, balance movement happens in the Normal Asset GL and the Partial Write Off GL. If a Contingent GL accrual precedes a write off then the Contingent GL balance is moved to a Contingent Write Off GL as defined in the PWOF accounting entry definition. The real balances are in turn moved to the Real Write Off GL.

8.11.2 Processing Recovery

If there is a payment to an account in 'Write-off' status and interest income is reversed, then you can recover the amount at the 'Manual Disbursement' level. After recovery of the amount, if appropriate accounting entries are maintained with 'Split Balance', then the system automatically updates the balance in different GLs, maintained based on the amount paid or recovered.

8.12 Rollover Operations

The rollover preferences and rollover type for a loan account are specified at the time of setting up a product. In the product screen, you have the option to rollover the account manually or instruct the system to do an automatic rollover. You can also specify the type of rollover; the options available are custom and special. When a loan is rolled over, a schedule is defaulted depending upon the UDE type and the schedule basis specified in the product screen.

◆ Preferences

Product Code _____ Description _____

Rate/Account Preferences **Account Preferences** Holiday Preferences

Readjustment Entry Preferences

Debit Adjust Settlement

Credit Adjust Settlement

Disbursement Mode Auto Manual

Accrual Preference

Frequency Handling of Foreclosure Acquisition Type

Tenor

Minimum Tenor _____ Default _____ Maximum Tenor _____ Unit

Account Opening Installment Calculation Type

Account Opening Installment Calculation Type Payment In Advance

Rollover

Allow Rollover Yes No

Rollover Auto Manual

Rollover Type Custom Special

Roll By

User Defined Element Type Product Contract

Schedule Basis Product Contract

Interest Preference

Interest Only Period _____ Unit

Recomputation of Amortization Loan at Amendments

Value Dated Amendment Account

Value Dated Amendment Installment Calculation Type

Prepayment of Loan

Recomputation Basis

Prepayment Effective from

Prepay Equated Monthly Installment Type

Minimum Equated Monthly Installment Amount _____

Minimum Equated Monthly Installment Currency _____

1 of 1

Go to Page

Rollover Components

Component

Ok Exit

Refer to the Products Chapter for more details on rollover specifications for loan accounts.

The rollover preferences specified at the product level are defaulted in the accounts screen at the time of loan account creation.

◆ Manual Rollover

Branch * CHO Product Category _____ Contract Status _____

Account Number * _____ Application Number _____ User Reference _____

Product Code _____ Alternate Account Number _____ Auth Status _____

Derived Status _____ Line Id _____

Go

Rollover/Renegotiation Account Details Default Check List Fields Components Charges Linkages Advice Credit Score

Value Date Book Date Currency 1 _____

Maturity Date Down Payment

Amount Original Start Date

Loan to Value EMI Frequency Unit Net Principal

Minimum EMI EMI Frequency Calculate Gross Principal

Maximum EMI End Date

Tenor

Applicant Information

Primary Applicant

Customer Id _____ Customer Name _____

Other Applicants

Customer Id	Customer Name	Responsibility	Liability %	Liability Amount
<input type="checkbox"/>	<input type="text"/>	Borrower	<input type="text"/>	<input type="text"/>

Holiday Periods

Period
<input type="checkbox"/>

MIS GL Balance IRR Details Events Installment SWIFT Message Details Special Conditions

Input By SANDEEP1 Authorized By _____ Contract Status Authorized

Date Time _____ Date Time _____

Cancel

Refer to the Account Creation chapter for more details on rollover specifications for loan accounts.

CL module has a special operations screen to support manual Rollover of accounts. This screen provides facility to pay off dues on the loan and also options to rollover the unpaid amounts for a new tenor with new loan terms.

If the Rollover is a simple maturity extension with or without components (Outstanding Principal, Interest etc) capitalized, then the ROLL event is fired. However, if the Rollover is a result of Renegotiation and Restructuring of the loan then the respective events are fired.

Special Rollovers involve a change in the Loan currency, reassignment of the Loan customer, creation of a new loan with same reference number as the original loan and waiver of outstanding loan. These are supported by events that fire the respective accounting entries.

The special Rollover Event is SROL and Renegotiation of a loan is RNOG. The event entries to be maintained are displayed in the product defaulting.

8.12.1 Capturing Manual Rollover Details

You can invoke the 'Manual Rollover' screen by typing 'CLDMROLL' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Manual Rollover' application window. At the top, there are input fields for Branch (CHO), Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, Contract Status, User Reference, Auth Status, and Line Id. Below these is a tabbed menu with 'Rollover/Renegotiation' selected. The 'Rollover/Renegotiation' tab contains fields for Execution Date, Value Date, Special Rollover, Product, Currency, and Customer Id. There are also buttons for 'Populate Outstanding', 'Allocate', and 'Default'. Below this is a table for 'Component Details' with columns: Component Name, Amount Outstanding, Liquidation Amount, Principal Increase Amount, and Waive Amount. Underneath is a 'Debit Details' table with columns: Mode, Currency, Amount Settled, Loan Currency Equivalent, Original Exchange Rate, Exchange Rate, and Settlement Branch. At the bottom, there is a footer with 'MIS', 'GL Balance', 'IRR Details', 'Events', 'Installment', 'SWIFT Message Details', and 'Special Conditions'. It also shows 'Input By SANDEEP1', 'Authorized By', 'Contract Status', and an 'Authorized' checkbox. A 'Cancel' button is in the bottom right corner.

Query for the account number that needs to be rolled over and then click New icon in the toolbar. Then, click on the 'Populate Outstanding' button. The system will display the outstanding against each component for the account. You can then specify the rollover details such as 'Liquidation Amount', 'Settlement Details' etc. Then, click 'Allocate' button to actually allocate the settlements against the components involved.

8.12.1.1 Rollover/Renegotiation Tab

You can specify the following details in the Manual Rollover screen:

Exec Date

Select the transaction date of the rollover in this field.

Value Date

Select the value date of the rollover in this field.

Product code

Select the new product of the account due to Special Rollover, from the adjoining option list. Double click on a value to select it.

Currency

Select the new currency of the account due to Special Rollover from the adjoining option list. Double click on a value to select it.

Customer ID

Select the customer Id from the list of values provided. Double click on a value to select it.

Component Details

The following details are captured here:

Component Name

The system displays the name of the component that is being rolled over / paid in this field.

Amount Outstanding

The system displays the outstanding portion of the component in this field.

Liquidation Amount

Enter the amount that is paid as part of the Rollover in this field.

Principal Increase Amount

Enter the amount that is rolled over for the component in this field.

Waive Amount

Enter the amount that is waived for the component as part of the rollover in this field.

Debit Details/Credit Details

The following details are captured here:

Mode

Select the mode in which the settlement should be done from the adjoining drop-down list. The list displays the following values:

- CASA
- Credit Card
- Clearing
- Cash/Teller

Currency

Select the currency in which a particular settlement is to be made from the adjoining option list. Double click on a value to select it.

The options include list of currencies allowed for the product, branch and category.

Amount Settled

Enter the amount to be disbursed in this mode as a part of the disbursement.



The amount should be less than the difference between Disbursement amount and the amount settled through other modes. The amount should be in terms of the mode currency.

Loan Currency Equivalent

The system displays the amount in terms of the loan currency in this field.

Original Exchange Rate

The base or actual exchange rate between the account currency and settlement currency gets displayed here.

Exchange Rate

For a customer availing any Relationship Pricing scheme, the customer specific exchange rate derived by adding the original exchange rate and the customer spread maintained for the relationship pricing scheme gets displayed here.

You can change the defaulted rate provided the change is within the variance level maintained for the underlying product.

If Relationship Pricing is not applicable, Exchange Rate will be the same as the Original Exchange Rate.

For more details on customer specific exchange rates, refer the section titled 'Specifying Pricing Benefit Details' in Relationship Pricing user manual.

For Dr Settlement, the following details can be captured depending on the settlement mode:

For 'CASA'

- Settlement Branch
- Settlement Account

For 'Credit Card' and 'Debit Card'

- Card No.

For 'Clearing'

- Upload Source
- Instrument Number
- Clearing Product
- End Point
- Routing Number
- Clearing Bank
- Clearing Branch
- Sector Code
- Clearing House

For 'External Account'

- Upload Source
- PC Category
- Clearing Bank
- Clearing Branch
- External Account Name
- External Account Number
- Clearing House

For 'Electronic Pay Order'

- Instrument Number

For 'Internal Check'

- Instrument Number
- Settlement Branch

- Settlement Account

For 'Instrument'

- Instrument Number
- Routing Number
- End Point

For 'Cash/Teller'

- Upload Source

For Cr Settlement, the following details can be captured depending on the settlement mode:

For 'CASA'

- Settlement Branch
- Settlement Account

For 'Clearing'

- Upload Source
- Instrument Number
- Clearing Product
- End Point
- Routing Number
- Clearing Bank
- Clearing Branch
- Sector Code
- Clearing House

For 'External Account'

- Upload Source
- PC Category
- Clearing Bank
- Clearing Branch
- External Account Name
- External Account Number
- Clearing House

For 'Instrument'

- Instrument Number
- Routing Number

- End Point

For 'Cash/Teller'

- Upload Source

Negotiated Cost Rate

Specify the negotiated cost rate that should be used for foreign currency transactions between the treasury and the branch. You need to specify the rate only when the currencies involved in the transaction are different. Otherwise, it will be a normal transaction.

The system will display an override message if the negotiated rate is not within the exchange rate variance maintained at the product.

Negotiated Reference Number

Specify the reference number that should be used for negotiation of cost rate, in foreign currency transaction. If you have specified the negotiated cost rate, then you need to specify the negotiated reference number also.



Oracle FLEXCUBE books the online revaluation entries based on the difference in exchange rate between the negotiated cost rate and transaction rate.

The CL Module supports the following rollover functions:

Special Rollover

Only manual product and/or currency modifications are allowed during rollover. This is termed as Special rollover.

Following are the two events for special rollover:

SROL – Special Rollover Liquidation

This event has normal liquidation entries as well as the entries to liquidate the amount to be rolled over into suspense.

Amount Tag

<component_name>_SROL

Accounting Role

SROL_SUSPENSE

The entries defined are:

Dr/Cr	Role	Amount Tag
-------	------	------------

Dr/Cr	Role	Amount Tag
Dr	DR_SETTLE_BRIDGE	PRINCIPAL_LIQD
Cr	LOAN_ACCOUNT	PRINCIPAL_LIQD
Dr	DR_SETTLE_BRIDGE	MAIN_INT_LIQD
Cr	MAIN_INTREC	MAIN_INT_LIQD
Dr	SROL_SUSPENSE	PRINCIPAL_SROL
Cr	LOAN_ACCOUNT	PRINCIPAL_SROL
Dr	SROL_SUSPENSE	MAIN_INT_SROL
Cr	MAIN_INTREC	MAIN_INT_SROL

REOP – Re-Opening of Loan Account with new product and/or currency

This event has entries to Dr Loan Account and Cr the Dr Settlement suspense. The PRINCIPAL amount tag is used for these entries.

The entries defined are:

Dr/Cr	Role	Amount Tag
Dr	LOAN_ACCOUNT	PRINCIPAL
Cr	SROL_SUSPENSE	PRINCIPAL
Dr	LOAN_ACCOUNT	PRINCIPAL_INCR
Cr	CR_SETTLE_BRIDGE	PRINCIPAL_INCR

The above two events are triggered whenever Product and/or currency is changed during manual rollover.

The manual rollover screen is used to carry out special rollover. The current product code and currency are shown on the manual rollover tab. If any of this were modified then SROL event is triggered, which in turn triggers REOP, else, a normal ROLL event is triggered.



In case of Product Change, SROL event of the previous product is triggered and REOP event of the new product is fired. Hence the SROL_SUSPENSE maintained should be same across all products.

Pre Mature Rollover

During manual rollover a Rollover Value Date is captured, which is a date prior to the maturity date to pre maturely rollover the loan. The interest is calculated up to the rollover value date. You can choose to liquidate or roll any component. Special Rollover is also allowed.

Back Value dated Rollover

The rollover value date may be used to input back valued rollovers.

Rollover Booking

The ROLB (Rollover Book) event facilitates processing of future dated rollover instructions. A manual rollover, to be executed in the future can be created by giving a future execution date. For such rollover instructions, the ROLB event is fired. The rollover instructions are applied on the execution date. All the settlement entries are passed on the execution date with the rollover value date.

Rollover Tenor

Select any of the following values:

- Days – The Tenor for the Rolled Contract would be taken in terms of days.

Example: Value Date: 01-Jan-2005; Maturity Date: 01-Apr-2005; Tenor: 90 days

New Rolled Maturity Date: 30-Jun-2005

- Months – In Terms of Months

Example: Value Date: 01-Jan-2005; Maturity Date: 01-Apr-2005; Tenor: 3 Months

New Rolled Maturity Date: 01-Jul-2005

- Quarters – In Terms of Quarters

Example: Value Date: 01-Jan-2005; Maturity Date: 01-Apr-2005; Tenor: 3 Months (1 Quarter)

New Rolled Maturity Date: 01-Jul-2005

- Semiannual – In Terms of Semi Annuals

Example: Value Date: 01-Jan-2005; Maturity Date: 01-Apr-2005; Tenor: 6 Months (Semi Annual)

New Rolled Maturity Date: 01-Oct-2005

- Year – In Terms of Years

Example: Value Date: 01-Jan-2005; Maturity Date: 01-Apr-2005; Tenor: 12 Months (Year)

New Rolled Maturity Date: 01-Apr-2006

The same field is available on the Account screen and the values are defaulted from product. The defaulted values can be amended.

During rollover of an auto-disbursed loan, swift message is sent if the Principal increase through credit settlement happens. If the credit settlement mode is chosen as CASA, the settlement account, currency and branch along with the Swift message details are defaulted from the account.

In case you change the customer, currency or the product during rollover, system picks up the settlement details again from Settlement Instruction maintenance corresponding to the new parameters. The swift message, if applicable, is generated during authorization similar to manual disbursement.



Note the following:

- If 'Gross Principal' check box is not checked, and debit account details are not CASA then system displays the following error message:
'Debit Payment Mode should be account with CASA account number'
- Debit Payment Mode should be account with CASA account number. On save system checks available funds in CASA account (mentioned in Debit Settlement Mode). If sufficient funds are not there in CASA account to clear tax amount, then system displays the following override message:
'Insufficient funds in CASA account to pay taxes'
- On save, the system checks schedule of Insurance component with Main interest component (Frequency Unit, Frequency, Start Reference, Start Date, and No of Schedules), if schedules are not same then system displays the following error message:
'Insurance Schedule should be same as of Main Interest component'

8.12.2 Default Tab

The default details maintained for the account are displayed here.

The screenshot displays the 'Manual Rollover' application window. At the top, there are search and navigation controls. Below that, several input fields are visible for account identification: Branch (CHO), Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, Contract Status, User Reference, Auth Status, and Line Id. A tabbed interface is present, with the 'Default' tab selected. This tab contains a list of checkboxes for account features (e.g., Cheque Book, Amend Past Paid Schedule, ATM Facility, Passbook, etc.) and radio button options for Rollover (Auto/Manual), UDE Rollover (Product/Contract), Schedule Basis (Product/Contract), Rollover Type (Special/Custom), and Allow Rollover (Yes/No). There are also input fields for Amount, Compare PPPO Tenor, and PPPO Tenor. A 'Liquidation' section includes a dropdown for Liquidation Mode and checkboxes for 'Reset Retry Count For Reversed Auto Liquidation' and 'Partial Liquidation'. A 'Rollover Components' table is shown with columns for Component Name and a checkbox. Other fields include Loan statement, Frequency, Start Date, and Frequency Unit. At the bottom, there is a status bar with tabs for MIS, GL Balance, IRR Details, Events, Installment, SWIFT Message Details, and Special Conditions. The status bar also shows 'Input By SANDEEP1', 'Authorized By', 'Contract Status', and an 'Authorized' checkbox. A 'Cancel' button is located in the bottom right corner.


Charg

8.12.3 Charge Tab

The charge details maintained for the rollover are displayed here.

The screenshot displays the 'Manual Rollover' application window. The 'Charges' tab is active, showing a form with the following sections:

- Header Fields:** Branch (CHO), Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, Contract Status, User Reference, Auth Status, Line Id.
- Charges Section:** Description, Component Currency, Debit Payment Mode (set to Account), Calculation Type (Formula With Schedule), Settlement Currency, Credit Payment Mode (set to Account).
- Service Fields:** Service Branch, Service Account, Effective Date, Due Date, Amount Due, Amount Waived.
- Checkboxes:** Funded During INIT, Funded During Rollover, Waive.
- Details Table:** A table with columns: Event Code, Component Name, Amount Due, Amount Settled, Due Date, Waive.
- Footer:** MIS, GL Balance, IRR Details, Events, Installment, SWIFT Message Details, Special Conditions. Input By SANDEEP1, Authorized By, Contract Status, Authorized checkbox, Date Time, Date Time, Cancel button.

 Note the following:

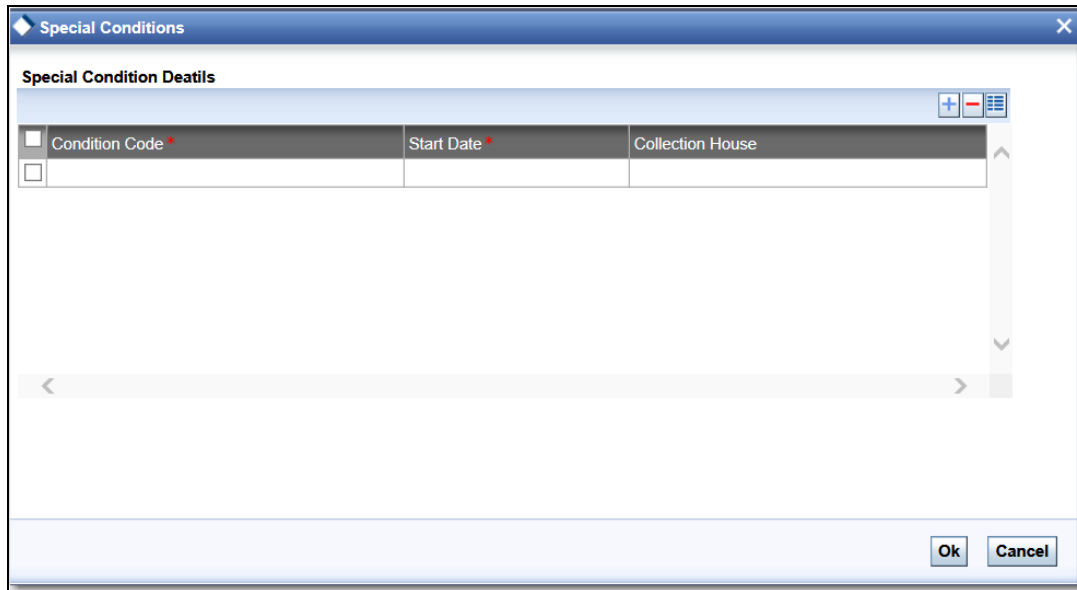
In case of TAX_COMPONENT:

- If 'Gross Principal' check box is not checked, and debit account details are not CASA then system displays the following error message:
'Debit Payment Mode should be account with CASA account number'
- Debit Payment Mode should be account with CASA account number. On save system checks available funds in CASA account (mentioned in Debit Settlement Mode). If sufficient funds are not there in CASA account to clear tax amount, then system displays the following override message:

'Insufficient funds in CASA account to pay taxes'

8.12.4 Viewing Special Condition Details

You can view the special condition details using the 'Special Condition Details' screen. You can invoke this screen by clicking the 'Special Conditions' button in the 'Manual Rollover' screen.



The screenshot shows a window titled "Special Conditions" with a sub-header "Special Condition Deatils". Below the header is a table with three columns: "Condition Code", "Start Date", and "Collection House". The table is currently empty. There are "Ok" and "Cancel" buttons at the bottom right of the window.

Condition Code *	Start Date *	Collection House
<input type="checkbox"/>		

The system displays the following details:

- Special Condition
- Collection Agency
- Start Date

STOP On rollover for an account with discounted interest, the system will process refund and reduce principal by refund amount. On rolled-over loan, the system will build an interest due as on rollover date after re-calculation. This amount will not be automatically liquidated at the time of rollover. This due should be liquidated with a payment manually.

8.12.5 Saving and Authorizing Manual Rollover Details

After entering the details in the 'Manual Rollover' screen, click 'Save' icon to save the payment details. On saving the account, the system validates the value of the amount financed against the following:

- Product transaction limit
- User Input limit

If the transaction currency and the limit currency are different, then the system converts the amount financed to limit currency and checks if the same is in excess of the product transaction limit and user input limit. If this holds true, the system indicates the same with below override/error messages:

- Number of levels required for authorizing the transaction
- Transaction amount is in excess of the input limit of the user

You can authorize a manual rollover by clicking the 'Authorize' icon on the Application toolbar.



You cannot authorise from the 'CL Payments' screen in the following cases:

- the contract has multilevel of authorization pending, the same will be done using the 'Multilevel Authorization Detailed' screen
- the level of authorization is greater than or equal to 'N'
- the 'Nth' or the final level of the users authorisation limit is less than the difference between amount financed and sum of the limits of all the users involved in authorizing a transaction, this case holds good when the 'Cumulative' field is checked in the 'Product Transaction Limits Maintenance' screen
- the transaction amount is greater than the authoriser's authorisation limit if the 'Cumulative' field is unchecked in the 'Product Transaction Limits Maintenance' screen

8.12.6 Capturing Split Rollover Details

You can create multiple draw down contracts out of the original draw down contract using the Split rollover method. For each rolled over contract, the system generates a split number. You must indicate preferences for these rolled over contracts in the 'Split Rollover' screen.

You can invoke this screen by typing 'CLDSROLL' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

You need to specify the following details here:

Split Ref No

A unique Split Transaction Reference number is generated by the system to identify the transaction uniquely whenever a new split preference is displayed here.

Account Number

Select a valid loan account for which the split rollover has to be done. All valid loan accounts created using the 'Account Details' screen will be available for selection in the option list.

Value Date

Select the value date for the split rollover operation.



Value Date cannot be less than the date of 'ALIQ', 'MLIQ', 'REVN', 'VAMI', 'DSBR' events.

Branch Code

The branch code of the loan account for which the split rollover preference is maintained is displayed here.

UDE Basis

Select the UDE basis for the split loan accounts from the drop down list. The UDE for the split loans can be defaulted from the product, parent account or user defined maintenance.



If you select user defined maintenance, then you need to specify the UDE details.

Effective Date

Select the effective date for UDE maintenance.

UDE Values

The following details are captured here:

UDE ID

Specify the UDE id here.

UDE Value

Specify the UDE rates here.

Rate Code

Select the rate code to be used for the UDE.

Rate Usage

Select whether the rate code should be periodic or automatic. If you select the rate code usage as periodic, the rate revision schedules will be defaulted from parent loan account. In case rate revision schedule is not maintained at the parent account, then rate revision schedules will be same as the payment schedules.

Split Details

The following details are captured here:

Sequence No

Specify a unique sequence number for each split record.

Split Account No

The split account no which is generated when split rollover operation is done is displayed here. This is generated by the system.

Max Roll Amount

Specify the maximum rollover amount applicable for a split loan account. Among all the splits, the last split sequence no. will have the max roll amount as Null, which is later considered as the remaining principal + interest of the parent loan.

Schedule Basis

Select whether the schedules of the new loan account should be defaulted from the product or the loan account.

Maturity date

Select the maturity date of the split loan account. You can calculate the maturity date using the 'Q' button.

Months Charged

Specify the months for which tax has already been applied. If anything other than numeric data is entered in 'Months Charged', the system displays the following error message:

'Months Charged should be numeric'

On saving a split rollover the status of the rollover is marked as 'U'- unprocessed. This split operation is performed during authorization of split rollover or during CL batch.

In the parent account a new version is created and the account status is marked as Liquidated. For each of the split detail record, a new CL Loan account is created with the amount as the max rollover amount. The new account will have UDE values, Schedules and Maturity date as per the given preferences for each detail record. For the last split detail record, a new CL Loan account is created with the balance rollover amount.

In some cases due to some prepayment done in the parent account the total amount during rollover is exhausted before the last split account is created. In such a case the new loan account is created only for the available rollover amount. All the newly created Split loan accounts will be made active by the system. The new account numbers generated is updated and displayed in the 'Split Account No' field.

The following events are fired during the different stages:

- ROBK event is fired in all the split accounts
- ROLL event is fired in the parent account to trigger the LIQD and ROLL accounting entries.
- ROSL (Rollover Split) event is fired in the parent loan at split rollover

8.12.7 Capturing Consolidated Rollover Details

You can consolidate several loan accounts into a single loan account as part of the rollover operation using the 'Consolidated Rollover' screen. You can invoke this screen by typing 'CLDCROLL' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Consolidated Rollover' application window. It features several input fields and dropdown menus for configuration. The fields include Branch, Value Date, MIS Basis, UDF Basis, Settlement Basis, Consol Transaction Reference, Consol Roll Acc, UDE Basis, Schedule Basis, Customer, Currency, Product Code, Rollover Amount, and Maturity Date. Below these fields are two table-like sections: 'UDE Effective Date' with a single row for 'Effective Date', and 'UDE Values' with columns for 'User Defined Element Id', 'UDE Value', 'Rate Code', and 'Rate Usage'. A 'Consolidated Details' section contains a table with columns for 'Account Number', 'Rollover Amount Type', 'Driver Contract', and 'Months Charged'. At the bottom, there is a status bar with tabs for 'MIS', 'Fields', and 'Settlement Details', and fields for 'Input By', 'Authorized By', 'Contract Status', and an 'Authorized' checkbox, along with an 'Exit' button.

You need to specify the following details here:

Branch


The branch code of the loan account for which the consolidated rollover preference is maintained is displayed here.

Value Date

Select the value date for the consolidation operation.


MIS Basis

Select the option from the drop-down list to indicate from where the MIS details of the consolidated account should be defaulted. The MIS details can be defaulted from the account or user defined maintenance.

 If you select user defined maintenance, then you need to specify the MIS details by clicking the 'MIS' button.


UDF basis

Select the option from the drop-down list to indicate from where the user defined fields of the consolidated account should be defaulted. The UDF can be defaulted from the product, account or user defined maintenance.

 If you select user defined maintenance, then you need to specify the UDF details by clicking the 'UDF' button.

Settlement Basis

Select the option from the drop-down list to indicate from where the settlement details of the consolidated account should be defaulted. The Settlement details can be defaulted from the account or user defined maintenance.

 If you select user defined maintenance, then you need to specify the settlement details by clicking the 'Settlement Details' button.

Consol Txn Ref No


A unique system-generated consolidated Txn Reference number to identify the transaction is displayed here.

Consol Roll Acc

A system generated consolidated loan account number is displayed here after the rollover operation is done.


UDE Basis

Select the option from the drop-down list to indicate from where the UDE details of the consolidated account should be defaulted. The UDE details can be defaulted from the product, account or user defined maintenance.

 If you select user defined maintenance, then you need to specify the UDE details.

Schedule Basis

Select the option from the drop-down list to indicate from where the schedule details of the consolidated account should be defaulted. The schedule details can be defaulted from the product, account or user defined maintenance.

 If you select user defined maintenance, then you need to specify the schedule details.

Customer

Select the customer name whose multiple CL or LS loan accounts have to be consolidated from the option list.

Currency

Select a currency code for the consolidation operation from the option list. All participating loans should belong to the same currency.

Product Code

Select a valid CL or LS module product code from the option list. All the loan accounts that are chosen for rollover consolidation should belong to this product.

Rollover Amt

Specify the additional amount which would be added to the consolidated loan.

Maturity Date

Select the maturity date of the consolidated loan account. You can calculate the maturity date using the 'Q' button.

Effective Date

Select the effective date for UDE maintenance.

UDE Id

Specify the UDE ID here.

UDE Value

Specify the UDE rates here.

Rate Code

Specify the rate code to be used for the UDE.

Rate Usage

Select the rate code usage from the drop-down list. The rate code usage can be either periodic or automatic. If the rate code usage is periodic, the rate revision schedules will be defaulted from the driver loan account. In case the rate revision schedule is not maintained at the driver loan account, then rate revision schedules will be same as the payment schedules.

Account Number

Select the loan account no for consolidation from the option list.

Rollover Amount Type

Select the amount which has to be rolled over from the drop-down list. You can choose to rollover the Principal or Principal + other components. If the rollover amount type is specified as the Principal, then all other components would be liquidated during the consolidation in respective loan accounts.

Driver Contract

Select 'Yes' from the drop-down to indicate that the selected account is a driver account. The details for the consolidated loan are defaulted from this driver account. There can be only one driver contract.

Months Charged

Specify the months for which tax has already been applied. If anything other than numeric data is entered in 'Months Charged', the system displays the following error message:

'Months Charged should be numeric'

On saving a consolidated rollover the status of the rollover is marked as 'U'- Unprocessed.

This consolidation operation is performed during authorization of split rollover or during CL batch.

In the participant accounts a new version would be created and the account status of each loan would be marked as liquidated 'L'.

A new consolidated loan account is created by consolidating all the amount preferences specified for individual participant loans. The new account will have UDE values, settlement details and MIS basis as per the given preferences.

The newly created consolidated loan account will be active. The status of consolidated rollover record would then be marked as 'P' – Processed and the generated consolidated loan account number is updated in the consolidated 'Consol Roll Acc' field.

The following events are fired at different stages:

- ROLL event is fired in all the participant loan accounts to fire LIQD and ROLL accounting entries.
- ROCL event is fired in all the participant loan accounts which are selected for consolidation.
- ROBK event is fired in the consolidated account
- DSBR event is fired in the consolidated account if any special rollover amount is specified.

8.12.8 Capturing Inactive Rollover Details

This function is provided to save Inactive rollover instructions. Click on the 'Activate' button on the Inactive Rollover screen to activate the inactive rollover instructions.

When an Inactive instruction is saved, no events are processed. And when activated, all the applicable events are fired.

This screen captures payment details such as Value date of the payment, Amount Settled, Payment Mode, Related Payment Products and Settlement Account. The payment is against any of the loan components such as principal, interest etc.

You can invoke this screen by typing 'CLDIMROL' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The procedure to create an Inactive Rollover is similar to the Manual Rollover process. However, you have the additional facility to activate the rollover by clicking on the 'Activate Rollover' button.

The screenshot displays the 'Inactive Rollover' application window. The interface includes a top navigation bar with 'Go to Page' and navigation icons. Below the title bar, there are several input fields: 'Branch * 000', 'Account Number *', 'Product Code', 'Product Category', 'Application Number', 'Alternate Account Number', 'Derived Status', 'User Defined Status', 'User Reference Number', and 'Authorization Status'. A horizontal menu bar contains tabs: 'Rollover/Renegotiation', 'Account Details', 'Default', 'Check List', 'Fields', 'Components', 'Charges', 'Linkages', 'Advices', and 'Credit Score'. The main content area is divided into sections: 'Special Rollover' with 'Execution Date', 'Value Date', 'Product Code', 'Currency', and 'Customer Id' fields; 'Component Details' with a table for 'Component Name', 'Amount Outstanding', 'Liquidation Amount', and 'Principal Increase An'; and 'Debit Details' with a table for 'Mode', 'Currency', 'Amount Settled', 'Loan Currency Equivalent', 'Exchange Rate', 'Settlement Branch', 'Settlement Account', and 'Settlement Produ'. At the bottom, there are buttons for 'Populate Outstanding', 'Allocate', 'Activate Rollover', and 'Default'. The footer contains 'Input By DOC1', 'Date Time', 'Authorized By', 'Date Time', 'Contract Status', and a 'Cancel' button.

The 'Inactive Rollover' screen is identical to the 'Manual Rollover' screen.

For more details on the field explanations refer section 'Capturing Manual Rollover Details' in this chapter.

8.13 Multilevel Authorization of Loan Account

High value transactions may require multilevel of authorization. The levels of authorizations can be defined in the 'Product Transaction Limits' screen. You can use the 'Multilevel Authorization Detailed' screen for authoring a contract n-1 times. However, final authorization can take place only in the contract screen.

For more details, refer the 'Multilevel Authorization of Contract/Loan Account' section in the 'Procedures' User Manual.

8.14 Calculating EMI for Personal and Auto Loans

You can calculate the EMI for amortized products in the 'Equated Monthly Installment' screen. Oracle FLEXCUBE simulates the loan creation in this screen and calculates the EMI. Oracle FLEXCUBE deletes the simulated loan during the batch process.

You can invoke this screen by typing 'CLDEMINT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Equated Monthly Installment' window. At the top, there are input fields for Product, Branch Code, User Reference, Product Category, Account, User Defined Status, Application Number, Alternate Account Number, and Derived Status. Below this is a tabbed interface with 'Main', 'Preferences', 'Components', and 'Charges' tabs. The 'Main' tab is active, showing fields for Customer Id, Customer Name, Currency, Amount Financed, Book Date, Value Date, Salary Income of Applicant, No of Installments, Unit (set to Bullet), Frequency, Installation Start Date, Due Date On, Maturity Type (set to Fixed), Maturity Date, Net Principal, Loan To Value, Index Exchange Rate, and Subsidy Customer Id. There are also checkboxes for 'Insurance Financed' and 'Calculate Gross Principal', and an 'Enrich' button. Below the main fields are two data tables: 'Effective Date' and 'User Defined Element Values'. The 'Effective Date' table has columns for Effective Date and a checkbox. The 'User Defined Element Values' table has columns for User Defined Element Id, User Defined Element Value, Rate Code, Code usage, and Resolved. At the bottom of the window, there are fields for Maker ID, Authorized By, Status, Date Time, and Authorization Status, along with an 'Exit' button.

Here you can specify the following details:

Product

Specify the code of the product for which the EMI should be calculated. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

Product Category

The system displays the product category of the selected product.

Application Number

Specify the application number.

Branch Code

The system displays the branch code.

Account

Specify the number of the account that should be linked with the specified product.

Alternate Account Number

Specify the alternate account number that should be used as the secondary account.

User Reference Number

Specify the reference number of the user who is included in this contract.

User Defined Status

Based on the product selected, the system defaults the user defined status.

Derived Status

Specify the derived status.

8.14.1 Specifying Main Details

You can specify the following details:

Customer ID

Specify the unique identification of the customer. The adjoining option list displays all valid customers IDs maintained in the system. You can choose the appropriate one.

Customer Name

The system displays the name of the customer whose customer ID is specified above.

Currency

Specify the code of currency that should be maintained in the product. The adjoining option list displays all valid currencies maintained in the system. You can choose the appropriate one.

Amount Financed

Specify the amount that should be financed.

Book Date

Based on the product code selected, the system defaults the book date.

Value Date

Specify the value date. You can select the date from the adjoining calendar.

Salary Income of applicant

Specify the income of the loan applicant.

Insurance Financed

Check this box to indicate whether insurance finance is required.

Number of Installments

Specify the number of installments that should be allowed for the repayment of loan through EMI.

Unit

Select the unit from the adjoining drop-down list. The list displays the following values:

- Daily
- Weekly
- Monthly
- Quarterly
- Half Yearly
- Yearly
- Bullet

Frequency

Specify the frequency of the installment.

Installment Start Date

Specify the installment start date. You can select the appropriate date from the adjoining calendar.

Due Date On

Specify the date on which the installment should be on due.

Maturity Type

Select the type of the maturity from the adjoining drop-down list. The list displays the following values:

- Fixed
- Call

Maturity Date

Specify the date on which the installment should be matured. You can select the appropriate date from the adjoining calendar.

Net Principal

Specify the net principal amount of the loan.

Loan To Value

Specify the loan to value.

Index Exchange Rate

Specify the exchange rate of the index.

Subsidy Customer ID

Specify the unique ID of the subsidy customer.

Calculate Gross Principal

Check this box to indicate that the gross principal should be calculated.

Effective Date

Specify the effective date from the adjoining calendar.

8.14.1.1 Generating and Viewing Advices

The system will generate advices by clicking 'Generate Advice' button. The message type for the simulation advice is CL_LOAN_CLC_ADV. Similarly, you can also view advices by clicking the 'View Advice' button.

8.14.1.2 Specifying User Defined Element Values

You can specify the user defined element values details in the following fields:

User Defined Element ID

Specify the unique identification for the user defined element. The adjoining option list displays all valid IDs maintained in the system. You can choose the appropriate one.

User Defined Element Value

Specify the value for the user defined element.

Rate Code

Specify the rate code. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

Code Usage

Select the type of code usage from the adjoining drop-down list. The list displays the following values:

- Periodic
- Automatic

Resolved Value

When you click Enrich button, the system calculates the resolved value.

8.14.2 Specifying Preferences

You can specify the preferences details in the 'Preference' tab in the 'Equated Monthly Installment' screen.

The screenshot displays the 'Equated Monthly Installment' application window. At the top, there are input fields for Product, Branch Code, User Reference, Product Category, Account, User Defined Status, Application Number, Alternate Account Number, and Derived Status. Below these is a tabbed interface with 'Main', 'Preferences', 'Components', and 'Charges' tabs. The 'Preferences' tab is active, showing several sections of options:

- Liquidation:** Includes checkboxes for Cheque Book Facility, Passbook Facility, ATM / Debit Card, Liquidate Back Valued Schedules, Allow Bulk Payment, Amend Past Paid Schedules, Stop Disbursement, Recalculate Annuity On Disbursement, Packing Credit, Use guarantor for Repayment, and Loan Statement Required. It also has a 'Retries Auto Liquidation Days' field and checkboxes for Auto Liquidation, Reset Retry Count for Reversed Auto Liquidation, and Partial Liquidation.
- Intermediate:** Includes an 'Intermediary Code' field and an 'Intermediary Initiated' checkbox.
- Track Receivable:** Includes checkboxes for Auto Liquidation and Manual Liquidation.
- Bill Details:** Includes fields for Trade Reference, Bill Due Amount, and Amount Available.

At the bottom of the window, there are two data grids: 'Holiday Periods' and 'UDE Rate Plan'. The 'Holiday Periods' grid has columns for 'Period' and a date field. The 'UDE Rate Plan' grid has columns for 'Start Date' and 'End Date'. Below the grids are fields for Maker ID, Authorized By, Status, Date Time, and Authorization Status, along with an 'Exit' button.

Here you can specify the following details:

Cheque Book Facility

Check this box to indicate that the cheque book facility should be allowed to loan account.

Passbook Facility

Check this box to indicate that the pass book facility should be allowed to loan account.

ATM/Debit Card

Check this box to indicate that the ATM/Debit card should be provided to the account holder.

Liquidate Back Valued Schedules

Check this box to indicate that the back valued schedules should be liquidated.

Allow Bulk Payment

Check this box to indicate that the bulk payment should be allowed.

Amend Past Paid Schedules

Check this box to indicate that the past paid schedules should be amended.

Stop Disbursement

Check this box to indicate that the disbursement should be stopped.

Recalc Annuity On Disbursement

Check this box to indicate that the annuity on disbursement should be recalculated.

Use Guarantor for Repayment

Check this box to indicate that the repayment should be done by the guarantor.

Loan Statement Required

Check this box to indicate that the loan statement should be generated.

8.14.2.1 Liquidation Details

You can specify the liquidation details in the following fields:

Auto Liquidation

Check this box to indicate that the liquidation should be automated.

Reset Retry Count For Reversed Auto Liquidation

Check this box to indicate that the retry count for reversed auto liquidation should be reset.

Partial Liquidation

Check this box to indicate that the partial liquidation should be allowed.

Retries Auto Liquidation Days

Check this box to indicate that the auto liquidation days should be retried.

8.14.2.2 Intermediate Details

You can specify the intermediate details in the following fields:

Intermediary Initiated

Check this box to indicate that the intermediary should be initiated.

Intermediary Code

Specify the unique code of intermediary. The adjoining option list displays all valid codes maintained in the system. You can choose the appropriate one.

8.14.2.3 Track Receivable Details

You can specify the track receivable details in the following fields:

Auto Liquidation

Check this box to indicate that the liquidation should be automated.

Manual Liquidation

Check this box to indicate that the liquidation should be done manually.

8.14.2.4 Bill Details

You can specify the bill details in the following fields:

Bill Reference Number

Specify the reference number of the bill. The adjoining option list displays all valid reference numbers maintained in the system. You can choose the appropriate one.

Bill Due Amount

Specify the due amount of the bill.

Amount Available

Specify the available amount.

8.14.2.5 Holiday Periods

You can specify the holiday periods detail in the following field:

Period

Specify the period of the holiday. The adjoining option list displays all valid periods maintained in the system. You can choose the appropriate one.

8.14.2.6 UDE Rate Plan Details

You can specify the UDE rate plan details in the following fields:

Start Date

Select the start date using the adjoining calendar.

End Date

Select the end date using the adjoining calendar.

8.14.3 Specifying Components Details

You can specify the component details in the 'Components' tab in the 'Equated Monthly Installment' screen.

The screenshot shows the 'Equated Monthly Installment' application window. At the top, there are fields for Product, Branch Code, User Reference, Product Category, Account, User Defined Status, Application Number, Alternate Account Number, and Derived Status. Below these are tabs for Main, Preferences, Components, and Charges. The 'Components' tab is active, showing fields for Component Name, Calculation Type (set to 'Formula With Schedule'), Component Currency, Special Interest Amt, Penal Basis Component, Service Branch, Service Account, Settlement Currency, and several checkboxes for 'Internal Rate of Return Applicable', 'Special Component', 'Funded During Initiation', and 'Funded During Rollover'. A 'Payment Mode Details' button is visible. On the right, a vertical menu contains buttons for Revisions, Disbursals, Edit Schedules, Explode Schedules, Schedule Details, and Guarantor Details. Below this is a 'Schedule Definition' section with a table:

Schedule Type	Schedule Flag	Formula	First Due Date	No of Schedules	Frequency	Units	Due Date
Payment	Normal					Daily	

At the bottom of the window, there are fields for Maker ID, Authorized By, Status, Date Time, and Authorization Status, along with an 'Exit' button.

Here you can specify the following details:

Component Name

Specify the name of the component.

Calculation Type

The system displays the calculation type based on the component maintenance at the product level.

Component Currency

Specify the currency in which the component should be maintained.

Special Interest Amt

Specify the special interest amount for the component.

Waive

Check this box to indicate that the interest amount should be waived.

Main Component

Check this box to indicate that the specified component should be main component.

Verify Fund

Check this box to indicate that the fund should be verified.

Capitalized

Check this box to indicate that the component should be capitalized.

Penal Basis Component

Specify the penal basis component.

Service Branch

Specify the service branch of the component. The adjoining option list displays all valid service branches maintained in the system. You can choose the appropriate one.

Service Account

Specify the service account for the component. The adjoining option list displays all valid accounts maintained in the system. You can choose the appropriate one.

Settlement Currency

Specify the code of the currency that should be used for settlements. The adjoining option list displays all valid currencies maintained in the system. You can choose the appropriate one.

Internal Rate of Return Applicable

Check this box to indicate that the internal rate of return should be applicable for the component.

Special Component

Check this box to indicate that the component should be considered as special component.

Funded During Initiation

Check this box to indicate that the funding should be done during the initiation.

Funded During Rollover

Check this box to indicate that the funding should be done during the rollover.

8.14.3.1 Specifying Schedule Definition Details

You can specify the schedule definition details in the following fields:

Schedule Type

Select the type of the schedule from the adjoining drop-down list. The list displays the following values:

- Payment
- Revision
- Disbursement

Schedule Flag

Select the schedule flag from the adjoining drop-down list. The list displays the following values:

- Normal
- Moratorium

Formula

Specify the formula. The adjoining option list displays all valid formulae maintained in the system. You can choose the appropriate one.

First Due Date

Select the first due date from the adjoining calendar.

Number of Schedules

Specify the number of schedules.

Frequency

Specify the frequency of the schedule.

Units

Select the unit from the adjoining drop-down list. The list displays the following values:

- Daily
- Weekly
- Monthly
- Quarterly
- Half Yearly
- Yearly
- Bullet

Due Date On

Specify the due date of the schedule.

End Date

Specify the end date of the schedule.

Amount

Specify the schedule amount.

EMI Amount

Specify the EMI amount that should be paid during the schedule.

EMI Percentage of Salary

The system displays what percentage of salary the EMI constitutes of the loan applicant.

Compound Days

Specify the number of compound days.

Compound Months

Specify the number of compound months.

Compound Years

Specify the number of compound years.

Days in Month

Specify the number of days that would constitute a month for calculation. You can have 30 or 31 days in a month for this purpose.

Years

Specify the number of days that would constitute a year for calculation.

Capitalized

Check this box to indicate that the amount should be capitalized.

Waive

Check this option to indicate that the component needs to be waived off. This is applicable to those components which do not have any schedule.

8.14.4 Specifying Charges Details

You can specify the charge details in the 'Charges' tab in the Equated Monthly Installment' screen.

The screenshot displays the 'Equated Monthly Installment' application window. The title bar reads 'Equated Monthly Installment'. The main area is divided into several sections:

- Header Fields:** Product, Branch Code, User Reference, Product Category, Account*, User Defined Status, Application Number, Alternate Account Number, and Derived Status.
- Navigation Tabs:** Main, Preferences, Components, Charges (selected).
- Component Details:** Component Name, Calculation Type (dropdown), Component Currency, Service Branch, Service Account, Settlement Currency, Effective Date, Due Date, Amount Due, and Amount Waived.
- Options:** Three checkboxes: 'Funded During Initiation', 'Funded During Rollover', and 'Waive'. A 'Payment Mode Details' button is also present.
- Details Table:** A table with columns for 'Event Code', 'Amount Settled', and 'Schedule Date'. The table is currently empty.
- Footer:** Fields for Maker ID, Authorized By, Status, Date Time, and Authorization Status, along with an 'Exit' button.

Here you can specify the following details:

Component Name

Specify the name of the component.

Calculation Type

The system displays the calculation type based on the component maintenance at the product level.

Component Currency

Specify the currency in which the component should be maintained.

Service Branch

Specify the service branch.

Service Account

Specify the service account.

Settlement Currency

Specify the currency in which the settlement should be done.

Effective Date

Specify the effective date.

Funded During Initiation

Check this box to indicate that the funding should be done during initiation.

Funded During Rollover

Check this box to indicate that the funding should be done during rollover.

Waive

Check this box to indicate that the charges should be waived.

Due Date

Specify the due date.

Amount Due

Specify the due amount.

Amount Waived

Specify the amount that should be waived.

Event Code

The system displays the event code.

Amount Settled

The system displays the settled amount.

Schedule Date

The system displays the schedule date.

8.15 Reassigning Loans

Oracle FLEXCUBE allows you to change the main debtor of a loan through the process of reassignment. You can achieve this through the 'Reassignment' screen. This screen is similar to the 'Account Details' screen. To invoke the screen, type 'CLDNOVDT' in the field at the top right corner of the Application tool bar and click the adjoining arrow button.

The screenshot displays the Oracle FLEXCUBE 'Reassignment' screen. The interface includes a top navigation bar with tabs for 'Main', 'Account Details', 'Default', 'Check List', 'Fields', 'Components', 'Charges', 'Linkages', 'Advices', and 'Credit Score'. The 'Account Details' section contains various input fields and controls, including 'Branch', 'Account Number', 'Product Code', 'Product Category', 'Application Number', 'Alternate Account Number', 'Derived Status', 'User Defined Status', 'User Reference Number', 'Authorization Status', 'Index Exchange Rate', 'Payment Mode', 'Calculate Gross Principal', 'Bill Reference Number', 'Bill Outstanding', 'Amount Available', 'Commitment Type', 'Maturity Date', and 'Maturity Type'. A 'Promotions' table is also visible, with columns for 'Promotion Type', 'Promotion Id', 'Beneficiary', and 'Priority'. At the bottom, there is an 'Account Statistics' table with columns for 'Component Name', 'Expected', 'Overdue', 'Outstanding', 'Advance', and 'Currency'. The footer includes 'Input By', 'Date Time', 'Authorized By', 'Date Time', 'Contract Status', and an 'Exit' button.

In this screen, you need to clear all details by pressing F7. Then you can specify the account number and click on F8. The system displays all the account details of the chosen account. You can change the Customer Id of the primary applicant.

Customer ID (Primary Applicant)

The CIF ID of the primary debtor of the mortgage account is displayed here. You can change it by selecting another CIF ID from the option list. This in effect means the debtor will be changed.

Customer ID (Other Applicants)

The CIF IDs of the co-applicants for the original mortgage are displayed here. You can change them by selecting other CIF IDs from the option list.

In the 'Reassignment – Linkages' screen, you can change the following details:

- Linkage Type
- Customer ID
- Linked Reference Number
- Linkage Amount
- Secured Portion

All these details get displayed in the corresponding fields. You can modify the same.

During Value Dated amendments, you can also change the following data:

- Maturity Date
- Interest Rate
- Installment Dates

However, you cannot change the Mortgage Account Number.

As a result of reassignment, limit utilizations against the old customer will be reduced and those towards the new customer will be increased by altering the utilizations.

On saving the transaction after entering all the required details in the system, the system validates the value of the transaction amount against the following:

- Product transaction limit
- User Input limit

If the transaction currency and the limit currency are different, then the system converts the amount financed to limit currency and checks if the same is in excess of the product transaction limit and user input limit. If this holds true, the system indicates the same with below override/error messages:

- Number of levels required for authorizing the transaction

- Transaction amount is in excess of the input limit of the user

For more details on the field explanation of each tab, refer 'Account Creation' chapter of this User Manual.

8.15.1 Default Tab

The default details maintained for the account are displayed here.

The screenshot displays the 'Reassignment' application window with the 'Default' tab selected. The interface includes several sections:

- Header Fields:** Branch, Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, Contract Status, User Reference, and Auth Status.
- Default Tab Content:**
 - Left Column:** A list of checkboxes for options like 'Cheque Book', 'Amend Past Paid Schedule', 'Atm Facility', 'Passbook', 'Liquidate Back Valued Schedules', 'Stop Disbursement', 'Notary Pre Confirmed', 'Packing Credit', 'Recalculate Annuity on Disbursement', and 'Loan Statement Required'.
 - Right Column:** Radio button options for 'Rollover' (Auto, Manual), 'UDE Rollover' (Product, Contract), 'Schedule Basis' (Product, Contract), 'Rollover Type' (Special, Custom), and 'Allow Rollover' (Yes, No).
 - Bottom Left:** 'Compare PPPO Tenor' and 'PPPO Tenor' fields.
 - Bottom Center:** 'Liquidation' section with 'Liquidation Mode' (Auto), 'Reset Retry Count For Reversed Auto', 'Liquidation' (Partial), and 'Retries for Auto Liquidation'.
 - Bottom Right:** 'Loan statement' section with 'Frequency', 'Start Date', and 'Frequency Unit' fields.
 - Center:** A 'Rollover Components' table with a header 'Component Name'.
 - Bottom Right:** 'Intermediary Details' section with 'Intermediary Initiated' checkbox and 'Intermediary Code' field.
- Footer:** A status bar with tabs for 'MIS', 'GL Balance', 'IRR Details', 'Events', 'Instalment', and 'SWIFT Message Details'. It also contains 'Input By', 'Authorized By', 'Contract Status', and 'Authorized' checkboxes, along with an 'Exit' button.

8.16 Renegotiating Loans

The customer can ask for re-negotiation of the written-off loan. Or when an account becomes delinquent, the bank may negotiate with the customer. Negotiation may result in any of the following:

- The customer may repay the mortgage.
- The mortgage is negotiated completely. In this case a new loan may be opened.
- The customer may pay the partial loan amount and the bank may condone the rest.
- The customer and bank may renegotiate part of the loan and the rest may be condoned.

- In the worst case scenario, if the customer is unable to pay back any portion the loan amount, the bank may consider it as condonation and close off the mortgage.

In Oracle FLEXCUBE, renegotiation is treated as a separate manual operation. Whenever a loan is renegotiated, it results in the creation of a new version of the existing loan. The contract's value date is same as the last version value date. The system then recalculates the schedules. If the customer makes any payment towards the written-off loan, they are also considered.

Once the loan gets transformed into a new loan, it is affected by maintaining Bridge GLs.

Renegotiation can result in just varying interest rates or maturity dates of the original loan along with capitalization of the outstanding interest.

You can perform loan renegotiation through the 'Re-Negotiation' screen. To invoke the screen, type 'CLDRENOG' in the field at the top right corner of the Application tool bar and click the adjoining arrow button

On saving the transaction after entering all the required details in the system, the system validates the value of the transaction amount against the following:

- Product transaction limit
- User Input limit



On save, the system checks schedule of Insurance component with Main interest component (Frequency Unit, Frequency, Start Reference, Start Date, and No of Schedules), if schedules are not same then system displays the following error message:

'Insurance Schedule should be same as of Main Interest component'

If the transaction currency and the limit currency are different, then the system converts the amount financed to limit currency and checks if the same is in excess of the product transaction limit and user input limit. If this holds true, the system indicates the same with below override/error messages:

- Number of levels required for authorizing the transaction
- Transaction amount is in excess of the input limit of the user

For more details on the field explanation of each tab, refer 'Capturing Manual Rollover Details' section of this User Manual.

8.16.1 Default Tab

The default details maintained for the account are displayed here.

The screenshot displays the 'Renegotiation' application window with the 'Default' tab selected. The interface includes the following sections:

- Header:** Navigation buttons (back, forward, search) and a 'Go' button.
- Account Information:** Fields for Branch, Account Number, Product Code, Product Category, Application Number, Alternate Account Number, Derived Status, Contract Status, User Reference, and Auth Status.
- Default Tab:**
 - Rollover/Renegotiation:** A list of checkboxes including Cheque Book, Amend Past Paid Schedule, Atm Facility, Passbook, Liquidate Back Valued Schedules, Stop Disbursement, Notary Pre Confirmed, Packing Credit, Recalculate Annuity on Disbursement, and Loan Statement Required.
 - Rollover:** Radio buttons for Auto (selected), Manual, UDE Rollover (Product, Contract), and Schedule Basis (Product, Contract).
 - Amount:** A text input field.
 - Rollover Type:** Radio buttons for Special, Custom (selected), and No.
 - Allow Rollover:** Radio buttons for Yes and No.
- Compare PPPO Tenor:** A section with a 'Compare PPPO Tenor' checkbox and a 'PPPO Tenor' text field.
- Liquidation:**
 - Liquidation Mode:** A dropdown menu set to 'Auto'.
 - Reset Retry Count For Reversed Auto Liquidation:** A checkbox.
 - Retries for Auto Liquidation:** A text input field.
 - Partial Liquidation:** A checkbox.
- Intermediary Details:**
 - Intermediary Initiated:** A checkbox.
 - Intermediary Code:** A text input field.
- Rollover Components:** A table with a header 'Component Name' and a list of components.
- Loan statement:** Fields for Frequency, Start Date, and Frequency Unit.

The bottom of the window features a navigation bar with tabs for MIS, GL Balance, IRR Details, Events, Installment, and SWIFT Message Details. Below the tabs are fields for 'Input By' and 'Authorized By' (both with Date Time inputs), a 'Contract Status' field with an 'Authorized' checkbox, and an 'Exit' button.

8.16.2 Charge Tab

The charge details maintained for the renegotiate are displayed here.

Renegotiation

Branch * 000 Product Category Contract Status
Account Number * Application Number User Reference
Product Code Alternate Account Number Auth Status
Derived Status

Rollover/Renegotiation Account Details Default Check List Fields Components **Charges** Linkages Advice Credit Score

Description
Component Currency Calculation Type
Debit Mode Details Formula With Schedule
Debit Payment Mode: Account Settlement Currency Credit Mode Details
Credit Payment Mode: Account

Service Branch Due Date Funded During INIT
Service Account Amount Due Funded During Rollover
Effective Date Amount Waived Waive


Details

Event Code *	Component Name *	Amount Due	Amount Settled	Due Date *	Waive
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MIS GL Balance IRR Details Events **Installment** SWIFT Message Details

Input By RAJESHBHAT2 Authorized By Contract Status Authorized
Date Time Date Time

Cancel

 Note the following:

In case of TAX_COMPONENT:

- If 'Gross Principal' check box is not checked, and debit account details are not CASA then system displays the following error message:
'Debit Payment Mode should be account with CASA account number'
- Debit Payment Mode should be account with CASA account number. On save system checks available funds in CASA account (mentioned in Debit Settlement Mode). If sufficient funds are not there in CASA account to clear tax amount, then system displays the following override message:

'Insufficient funds in CASA account to pay taxes'

8.17 Utilizing Limit with External Loan

You can link and delink the limit lines with the external loan account using the 'Limit Utilization by External Entity' screen. You can invoke this screen by typing 'CLDEXNTT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow.

The screenshot shows the 'Limit Utilization by External Entity' window. At the top, there are input fields for 'Source Code *' and 'Loan Account Number *', and a 'Reference Number' field with a 'Populate' button. Below this are two main sections: 'Customer Details' and 'Account Details'. 'Customer Details' includes 'UID Type *', 'UID Value *', and 'Customer Number'. 'Account Details' includes 'Product Code', 'Loan Currency', 'Amount Financed', 'Outstanding Principal *', 'Mandatory Collateral Coverage (%)', 'Loan Class' (dropdown), and 'Transaction Status' (dropdown). Below these is the 'Limit Details' section with 'Line ID' and 'Customer ID' fields. The 'Collateral Details' section features a table with a 'Collateral Code' column and a 'Go' button. At the bottom, there are fields for 'Input By', 'Authorized By', and 'Status', each with a 'Date Time' field, and an 'Exit' button.

Specify the following details:

Source Code

Specify the source code of the loan account from the adjoining option list. The list displays all valid source codes maintained in the system. You can choose the appropriate one.

Loan Account Number

Specify the loan Account number.

Click the 'Populate' button. The system displays the following detail:

- Reference Number - The system will display the reference number of the utilization.

Customer Details

UID Type

Specify the unique ID type of loan customer from the adjoining option list. The list displays all valid identification types maintained in the Limit Type Maintenance screen. You can choose the appropriate one.

UID Value

Specify the unique ID value of loan customer.

Customer Number

The system will display the loan customer number.

Account Details

Product Code

The system displays the product code of the loan.

Loan Currency

Specify the currency of the loan account from the adjoining option list. The list displays all valid currencies maintained in the system. You can choose the appropriate one.

If you have not specified the currency, then the system will default the local currency of the branch.

Amount Financed

Specify the sanctioned loan amount.

Outstanding Principal

Specify the outstanding amount of the loan.

Mandatory Collateral Coverage%

Specify the Mandatory Collateral coverage %.

Loan Class

Select the loan class from drop down list. The list displays the following values:

- Retail
- Commercial

Transaction Status

Select the Transaction status from the drop down list.

Limit Details

Line ID

Select the limit line number from the adjoining option list. The list displays all valid line IDs maintained in the system. You can choose the appropriate one.

The system will include the facilities that are available to loan account holder for linkage.

Customer ID

Specify the Customer ID.

Collateral Details

Collateral Code

Specify the Collateral code from the adjoining option list. One or more than one collateral can be associated with an external loan.



This screen will be used for Limit and Collateral linkage for external loan account and the two fields 'Loan Class' and 'Mandatory Collateral coverage %' will be mandatory only for Collateral link to external loans.

The system will allow you to perform the following operations in this screen:

- New
- Delete
- Authorization
- Reverse

During authorization, system triggers the utilization in ELCM system. The system increases or decreases the utilization of limit line based on the outstanding principal value. If there is an increase in the outstanding principal, the system increases the utilization. Similarly, the utilization is decreased if there is a decrease in outstanding principal.



The system will reject the utilization request when there is an increase in utilization and there is no sufficient limit available to cover the utilization.

The system performs the reversal of utilization based on the reference number. The amount and nature of utilization will be obtained from the internal transaction table. However, the nature of utilization will be opposite to the original utilization transaction. Also, the system does not validate the amount of limit available during reversal transaction. Therefore, transaction breaches the limit when amount of utilization is greater than the available limit amount.

There is one single request for limit and collateral association/utilization. Single Cupo and multiple collaterals can be linked to external loans; utilization/de-utilization for the cupo and collaterals is mutually exclusive.

Collateral linked to an external loan are persisted in the system and these details are amended as and when a change request is initiated by the external system. Additionally, collaterals that are present in the system but not provided in the transaction are considered for delinking. During delinking collateral utilization is reinstated i.e. collateral utilization is decreased to the extent of linkage amount.

Associated collaterals undergoes following checks during save and before authorization of any utilization transaction

- Collateral associated to the loan account should be in 'Available' status.
- Collateral Start Date should be less than or equal to application date and End Date should be greater than application date
- Next Reval Date or Insurance End Date or Document Revision Date, whichever is greatest, should be greater than application date.
- Collateral available amount should be sufficient to meet the Coverage Percentage maintained for the collateral E.g. If the amount of loan principal outstanding balance is 1000,000 COP and coverage percentage maintained for the collateral is 70%, then collateral available amount should be greater than or equal to 700,000 COP.
- .Collateral linkage amount will be derived automatically based on collateral coverage percentage maintained at collateral and loan principle balance. .
- .Collateral linkage amount should satisfy Mandatory Collateral Coverage i.e. sum of collateral linkage amount should be greater than or equal to Loan Principal multiplied by Mandatory Collateral Coverage (%) of a loan.
- For collateral class Guarantee, limit reservation date should be greater than value date of the loan.

During authorization, system triggers collateral utilization in ELCM system. Utilization amount is outstanding principal amount multiplied by collateral coverage percentage maintained for the collateral.

Changes are required in collateral utilization/ De-utilization process to arrive at utilization amount based on the Coverage Percentage maintained for the collateral i.e.

- $Utilization = \sum \text{Outstanding Principal of the Loan Account} * \text{Coverage Percentage of the Collateral.}$

Collateral utilization balance increases and available balance decreases on external loan creation. Amount is calculated using aforementioned formula.

External system sends the request with outstanding amount; system internally compares with existing data and if new outstanding amount is less than the existing data system triggers De-utilization and utilization balance decreases and available balance increases, and if new outstanding amount is more than the existing data system triggers utilization and utilization balance increases and available balance decreases.

8.18 Maintaining Special Conditions for Loan Account

You can maintain the special condition details for a loan account using the 'Special Condition Marking' screen. You can invoke this screen by typing 'CLDMRKSC' the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows the 'Special Condition Marking' application window. At the top, there are input fields for 'Branch Code *', 'Account Number *', 'UID Type', 'Customer Name', and 'Value'. Below these is a section titled 'Special Condition Details' which contains a table with columns 'Condition code', 'Collection Agency', and 'Start Date'. The table has one row with a checkmark in the first column and input fields in the others. At the bottom of the window, there are labels for 'Maker ID', 'Checker Id', 'Mod Number', 'Maker Date Stamp', 'Checker Date Stamp', 'Record Status', and 'Authorization Status', along with a 'Cancel' button.

Specify the following details:

Branch Code

Specify the branch code of the loan account from the adjoining option list. The list displays all valid branch codes maintained in the system. You can choose the appropriate one.

Account Number

Specify the loan account number from the adjoining option list. The list displays all valid account numbers maintained in the system. You can choose the appropriate one.

The system displays the following fields:

- UID Type
- Customer Name
- Value

Special Condition Details

Condition Code

Specify the special condition code from the adjoining option list. The list displays all valid special condition codes maintained in the Special Condition Maintenance screen. You can choose the appropriate one.

Collection Agency

Specify the collection agency code for judicial type of special condition from the adjoining option list. The list displays all valid agency codes maintained in the system. You can choose the appropriate one.

Start Date

Specify the start date of the special condition. This date should be greater than or equal to application date



Note the following:

- The system will allow only one active judicial type of special condition for a loan account.

8.19 Terminating Special Conditions

You can terminate the active special conditions for a given loan account as a bulk using the 'Special Condition Termination' screen. Here, the active special condition refers to the conditions which are either not in closed status or they are effective from a future date. You can invoke this screen by typing 'CLDTRMSC' the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

<input type="checkbox"/>	Closed	Condition code	Collection Agency	Start Date
--------------------------	--------	----------------	-------------------	------------

Specify the following details:

Branch Code

Specify the branch code of the loan account from the adjoining option list. The list displays all valid branch codes maintained in the system. You can choose the appropriate one.

Account Number

Specify the loan account number from the adjoining option list. The list displays all valid account numbers maintained in the system. You can choose the appropriate one.

List of Active Special Condition

Close

Check this box to indicate that the special condition should be terminated.

Condition Code

The system displays the special condition code.

Collection Agency

The system displays the collection agency code.

Start Date

The system displays the start date of the special condition.

9. Batch Processes

9.1 Introduction

The events that are to take place automatically are triggered off during what is called the Batch Process. The batch process is an automatic function that is run as a mandatory Beginning of Day (BOD) and/or End of Day (EOD) process. During EOD, the batch process should be run after end-of-transaction-input (EOTI) has been marked for the day, and before end-of-financial-input (EOFI) has been marked for the day.

9.2 Configuring CL Batch Processes

You have the facility to configure the batch processes to be executed either at EOD or BOD or both, as per the bank's requirement. This is achieved through the 'Automatic Process Definition' screen. You can invoke this screen by typing 'CLDTPROC' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Process Name	Process Description	Sequence	Invoke During BOD	Invoke During EOD
			<input type="checkbox"/>	<input type="checkbox"/>

Input By: _____ Date Time: _____
Authorized By: _____ Date Time: _____
Modification Number: _____
 Authorized
 Open
Exit

In this screen, you can amend the order of the various operations in the CL batch and choose to trigger them at EOD or BOD or both.

The default configuration is given below:

Batch Operation	BOD/EOD
Forward Init of Loan Accounts	BOD
Calculation	EOD/BOD

Batch Operation	BOD/EOD
Accruals	EOD/BOD
Minimum Amount Due	BOD
Auto Liquidations	EOD/BOD
Auto Disbursements	BOD
Rate Revisions	BOD
UDE Cascade	EOD
Maturity processing – Rollovers , Auto Closures	BOD/EOD
Automatic Status Change Processing	BOD
FEES	BOD
INTP (Interest Posting)	BOD
Billing & Payment Notices	BOD
Statements generation	EOD
Penalty Computation	BOD
Forward VAMIs	BOD
Revaluation	EOD
Readjustment	EOD

These batch processes are factory shipped for your bank. Note that you need to set the 'UDBATEVT' batch as a predecessor to the CL batch 'CLDBATCH'.

9.2.1 Defining Batch Processes

The CL batch processes are explained briefly:

Forward Init of Loan Accounts

Loan accounts maintained in the system are classified into two types:

- Active
- Inactive

When loan accounts become Active, the BOOK event is triggered for the Loan and you can specify a Value Date for the loan during this event.

This batch identifies all the accounts that are due for initiation on that day, at BOD and the INIT event is triggered for these accounts. The current system date will be taken as the value date for these accounts.

Re-Calculation

Loan parameter alterations directly affect the computation of accruals. This batch identifies such changes made to loan accounts, both at BOD and EOD. Further, it recalculates the accruals based on the altered loan components.

Accruals

This batch passes all the recalculated accrual changes required for the components. It is triggered, both at BOD and EOD.

Auto Liquidations

This batch processes the payments that are configured as auto payments and is triggered both at BOD and EOD.

Auto Disbursements

Disbursement schedules are maintained for products. As part of BOD process, the DSBR events for the accounts will be triggered.

This batch processes these schedules at BOD, which enables the DSBR events of the accounts to be initiated.

Rate Revision

As part of BOD program, this batch processes the Floating Rate revision schedules for products.

UDE Cascade

This batch is triggered at EOD in case of UDE value changes. The changes in UDE values are applied to all the affected accounts.

In case, a single account requires a UDE Change/Cascade, it can be performed online for that account alone. Such accounts are then excluded from this batch.

Maturity Processing

Maturity processing of loans is performed if the maturity date falls at BOD of a particular day. This results in either Auto Closure or Rollover of loans.

- Auto Closure: Loans that are liquidated on maturity are subject to Auto Closure, during maturity processing.
- Rollover: Loans that have auto rollover maintained are rolled over during maturity processing.

Status Change Processing

Certain accounts have automatic status changes, wherein the SDEs required for status change are evaluated. In such cases, this batch detects status changes at BOD. Once this is done, appropriate status change activities are triggered.

If you have selected the CIF/Group level status processing option (as part of the preferences for your branch), the status change batch picks up the worst status among all the loans and accounts (savings and current accounts) for a customer within the branch and updates this in all the customer's loans (in the 'User Defined Status' field).

Notice Generation – Billing, Payments

For each loan, the number of days prior to which a Notice is to be generated is evaluated. In case of loans that carry dues, the Notice is generated as specified in the notice days maintained for the product. This batch is processed at BOD.

Statement Generation

At EOD, the statement is generated depending on the statement frequency and other statement based maintenance actions specified.

Forward VAMI

At BOD, this batch processes all value dated amendments that are booked with the date as Value Date.

Penalty

Penalty computations are evaluated at BOD by this batch. Any grace period maintained will have to be considered during this calculation. On completion of the grace period, the penalty components are computed from the due date till the current date.

Revaluation

At EOD, revaluation of assets and liabilities to the LCY are carried out.

Readjustment

This batch is processed at EOD. It is triggered in the presence of Index currencies that are not treated as a part of revaluation. It handles readjustments based on new index rates.

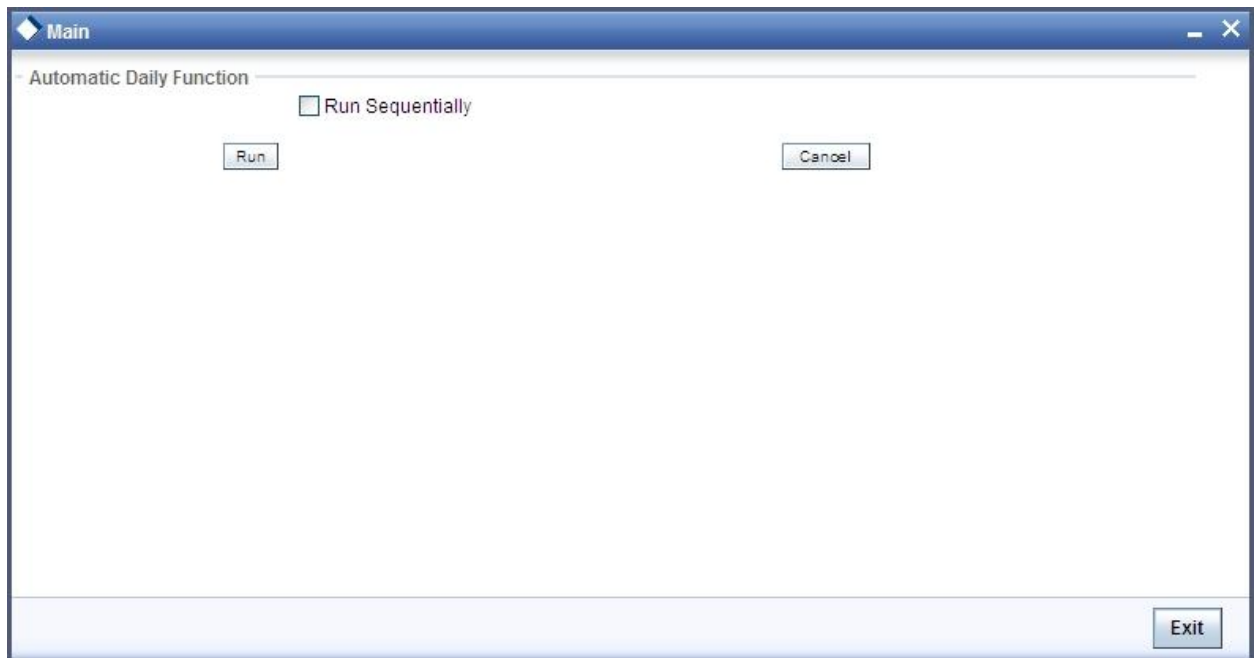
Minimum Amount Due

At BOD, this batch will identify the Open Line Loans accounts whose MAIN_INT component due date is equal to the application date and then calculate the minimum amount due details.

9.2.2 Initiating the Batch Process

If you have opted to trigger the CL batch programs at EOD, the same will be executed as part of the 'End of Cycle Operations' after marking the 'EOTI' for the day. If the trigger is maintained as 'BOD', the programs will be executed before the start of 'Transaction Input'. However, the programs will be triggered both at EOD and BOD if you opt to trigger it at both the instances.

You also have the option to execute the batch programs through the 'CL Batch' screen. You can also invoke this screen by typing 'CLDBATCH' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



Run Sequentially

Check this box to opt to execute the processes as per the sequence maintained in the 'Automatic Process Definition' screen.

Click 'Run' button to run the batch process. Click 'Cancel' button to cancel the batch execution.

9.2.3 Multi-threading of Batch Processes

The CL Batch process handles multi threading. The number of parallel processes and the interval between processes is maintained as part of 'CL Branch Parameters'.

Refer the section titled 'Maintaining Branch Parameters' in the 'Maintenances and Operations' chapter of this User Manual for details.

The accounts are split into multiple groups which can be processed in parallel for a particular sub process. Hence, all non conflicting parallel groups will complete the sub process after which the next sub process is taken up and so on. There is also an option to run it purely sequentially as shown above.

9.2.4 Excess Amount Allocation Batch

The Excess Amount Allocation batch is run to allocate the transfer amount available for each member against the outstanding balance in the corresponding loan accounts.

A member account is owned by a single member, but a loan account can be co-owned by several members in a certain ratio. Each member could be a borrower in multiple loans. For these reasons the amount allocations are necessitated.

The allocation process considers the following important parameters:

- % liability of each member in each loan where he is the borrower
- Transfer amount available per member
- Amount due (based on % liability) per member

To enable this fund allocation the rebate batch is run at the bank level. Common Settlement Account maintained in 'Rebate Account Preferences' screen is used as the 'Common Bridge Account'. This will have the combined balance of all the member accounts, which can be utilized for loan re-payment. The Rebate account processing batch will provide the details like the member account number (CASA account), the member (CIF number) and the excess amount for the member. This data will act as the input for this batch program.

The batch does the following operations:

- It will get the due details for the next schedule of each loan, along with the Liability Split %. This will include the overdue amount, if any.
- Allocate the excess amount of each member to his loans, with the earliest unpaid schedule first.
- The due date of the schedule will be considered by the allocation batch for allocating the payments. The batch will ensure that the available amount is used to make advance payment for the immediate next component due before considering the next.
- While allocating the amount for the next schedule, the available amount will be available amount minus the amount already allocated against the previous schedule.

- With this info, CL payment will be triggered for each loan account. This will be an advance payment (not Pre payment) for an aggregate amount and will be initiated according to the liquidation order maintained for the components.
- On successful payment, process status will be changed to 'P' for all the records with this Loan account number.
- Status will be changed to 'E', in case of any error during the payment. As per the current functionality, the error details will be available in the exception table.
- After correcting the errors, you can re-initiate the process which will exclude the already processed loan accounts.
- Further generation of Payment advice will derive the amount after considering the amount paid through this batch process.



The batch CLDBATCH will be used. If tax amount collection fails for insufficient funds then the respective VAMI, Consolidate Rollover, Split Rollover, Rollover, and Renegotiation transaction also fails, and system will continue with the EOD.

9.2.5 **Status Change Batch Processing (CSDSTBTC)**

For the CL module the Status change batch will be run along with the customer/Group and apply worst status change for the customer. This batch will use the status change events.

You can trigger the batches to run before the Common Status Change batch (CSDSTBTC). The following given batches can be run in any order:

- LCEOD
- BCAUSTCH
- CLBATCH
- ICEOD
- CIDBATCH
- MODBATCH
- CASABAT
- IAAUTDLY
- CSDSTBTC
- ICEOD
- CLDPROV
- MODPROV
- CIDPROV

The Process of Provisioning is handled by the following batches for CL, MO and CI modules respectively:

- CL provisioning batch (CLDPROV)

- Mortgage provisioning batch (MODPROV)
- Islamic loan provisioning batch (CIDPROV)



The provisioning process is detached from the CLBATCH, MODBATCH and CIDBATCH.

If 'Status Processing' is at Individual Contract Level, then system will trigger status change based on the Customer Credit rating for the customer of the Contract /Account booked. The other contracts of the customers in the same Group will not be impacted. However if the 'Status Processing' is at CIF/Group level individual module (LC,CL, CI, MO, CA, IA and BC) batches will be updating common storage with the derived status of each contract and CIF/Group level status will be triggered by the common status change batch. The common status change batch will call the individual module function for status change processing.

9.2.6 Interest Posting (INTP Event)

You need to make a provision to post an income into a separate GL. This income is the interest which you pay to the customer who has a loan account. On the interest posting date, a transaction occurs to move the receivable and the income from one GL to another. This transaction distinguishes between receivables from the income which is due and not due. Also, this interest posting is applicable for the main interest component only.

The INTP event runs at the BOD for a loan product against which it has been defined.

The following points are noteworthy:

- You can pick the INTP event during the loan product definition and maintain the accounting entries against this event. To recall, you need to click on the 'Events' tab in the 'Consumer Lending Product' screen where you specify the various events which need to be run.
- At the time of loan account creation, Oracle FLEXCUBE populates the events diary with one record of the INTP event for each schedule due date. This has the status as 'Unprocessed'. This is done for the main interest component schedule only.
- The system also creates a record for the end of each calendar quarter during the moratorium period in the case of amortized loan products.
- Any rebuilding of repayment schedules results in the rebuilding of records in the events diary.
- The batch process picks up all the unprocessed INTP records from the events diary having the execution date on or before the current application date. The process is limited to the active accounts belonging to the current branch.
- The amount and date of due for the main interest component is fetched from the component schedule due details.
- The accounting entries get passed on the schedule due date or the calendar quarter end, as defined for the event INTP through the 'Consumer Lending Product' screen under the 'Events' tab pertaining to a loan product maintenance.
- For term loans, the transaction posting date is the same as schedule due date of the main interest component. The same is followed for amortized loans also.

- For an amortized loan with a moratorium period, the transaction posting date is the end of the calendar quarter and the end of the moratorium period. If the moratorium period is different from the end of the calendar quarter, the entries passed will not tally with the actual amount due. This difference gets passed on the schedule due date of the moratorium period.
- There are no changes in the INTP event execution behaviour in case of a partial pre-payment.
- If a loan is getting pre-closed with a complete settlement, the system does not wait till the schedule due date or calendar quarter end for passing the INTP entries. It posts the interest accrued till the current date on the date of the pre-closure.
- In case of any failures during the INTP batch process, the system logs the error details for the account and processes the subsequent accounts.

9.2.7 Processing the CL Batch

When prioritization rule is maintained for a L/C linked to the loan account, then bulk liquidation takes a different route during CL batch processing. Liquidation is triggered based on the preference rule defined for L/C. Preference with respect to 'ALL' is considered if a specific preference is not maintained for the corresponding L/C. This is treated as a normal payment once the respective component, schedule of the loan is identified for the payment. During the batch process prioritization for account liquidation takes place.

The batch process for liquidation takes place as follows

- Sub-process named as 'BLIQ' is used for Bulk Payment which runs before the 'ALIQ' Process. Event code used for this Prioritized liquidation is ALIQ.
- Accounts linked with L/C are grouped and liquidation process is done on the group.
- For the L/C linked to the loan account, if a prioritization rule is set, the same is considered for Bulk Payment. If prioritization rule is not maintained, the liquidation happens as part of 'ALIQ'.
- When the bulk payment happens as part of batch, the prioritization rule determines which account is to be liquidated first. The account is attempted like any other ALIQ except for the component prioritization.
- Liquidation order is as per the prioritization rules defined for L/C.
- Verify funds facility is used as applied as part of loan processing.
- Missed or skipped schedules/accounts during Bulk liquidation due to specified preferences are picked up during ALIQ process and are allowed to succeed individually.
- The Accounts with 'Liquidation Mode' selected as 'Component' will be considered for auto liquidation.
- The system liquidates the component, for the accounts with the 'Liquidation Mode' selected as 'Component' and the 'Liquidation Mode' selected as 'Auto' at the component level.

Accounting entry netting is not available as part of Bulk Payment. There are multiple debits to the customer account for different CL account involved in the Bulk Payment.

For processing the daily Highest Outstanding balance for the entire active loan accounts, a process is maintained in auto CL automatic process table. This process runs as the last process in CL batch and invoked during EOD if it's selected as 'Y'.

Highest Outstanding Balance of an Account = Current Outstanding Balance of an Account. For month end HDB, system takes the highest debit balance during the month, which can be any day during that month.

For Base Re-computation Method, Relation between Accrual of Main Interests and Penalty Interests, Temporalidad Debil, the following batch process is followed-

- Penal process would initiate penal calculation on schedule due date EOD, if penal basis component is not fully paid.
- When penal basis for penalty component is selected as 'TOTAL', then all the non-penalty components for which the penal basis is maintained are considered for penalty process triggering. I.e. if any of the above components for a schedule goes overdue, then system triggers penalty process and calculates penalty by considering the component overdue/outstanding balance as liquidation base for all the components for which 'Include In Penal Liquidation base' enabled.
- Loan Overdue Days calculation would include schedule due date as the 1st overdue day, if scheduled penal basis component is not fully paid.



Components to be considered for overdue days calculation are based on Penal Basis.

For the accounts with penal has been triggered due to overdue of a schedule and 'Weak Temporality' is enabled for loan account product then Main interest accrual process is skipped for bearing simple interest loans. Penalty process has additional filter for accounts in 'Weak Temporality' status to restrict penalty calculation only on oldest overdue schedule.



Schedule are considered as overdue, if scheduled penal basis component is not fully paid.

Whenever main interest accrual process stops for an account due to Product 'Weak Temporality' enabled, there is a process in CL batch which is responsible for reducing amount due of main interest component. Amount to be reduced is same as per day main interest accrual amount. This is applicable only for Bearing Simple Interest loans.

If there are differential number of days between main interest and penalty interest then system has to ensure that the sum of main interest accrual is reduced to zero on the last day of the schedule.

For loan with two interest modalities,

- Use batch process to trigger special rollover with outstanding principal for all the discounted loans which are not liquidated on maturity date. If maturity date falls on a holiday then system triggers special rollover on next working date EOD.
- All the UDE details provided for bearing loan on the creation of discounted loans is used to rollover loans. If component schedules details are provide during discounted loan creation for bearing loan, system defaults component schedules details and builds schedule for bearing period.
- If during the discounted loan creation ,the component schedules details has amount for principal component, and if during special roll over if principal outstanding is less/more than the given schedule amount. Then system decreases/increases the principal due amount proportionally.

- System builds schedule for “National Collateral Fund” and “Life Insurance” component with old amount as already paid without any accounting entries.

For Insurance:

During EOD, a batch routine verifies the overdue days of insurance components against the maintenance ‘Insurance Termination Days’. If overdue days exceeds the parameters, the system will process a VAMI to change the UDE ‘COMPONENT_NAME’_ACTV to ‘0’ effective from application date. This ensures the future insurance premium schedules are ‘0’.

During EOD, a batch routine builds progressive schedule for insurance component for which the field ‘Continue Post Maturity Until Write-off’ is checked. Credit accelerated loans will also be under consideration for progressive schedule building, if opted. Such progressive schedules are built only for the life insurance component defined with periodicity monthly until the account status is ‘Write-Off’.

9.2.8 Processing Minimum Amount Due Batch

The minimum amount due batch calculates the minimum amount due for open line loans. This batch will identify the OLL accounts whose MAIN_INT component due date is equal to the application date and compute minimum amount due details. The following details are available in the installment query details of a loan account:

- Billing date
- Min Amount due
- Pay by date
- Component details
 - Component name
 - Amount due
 - Settled sum of payments made in the billing period.

This batch will calculate the minimum amount due to be paid by the customer on pay by date as per the chosen formula. The system will generate the billing advice with the calculated values.

The system will generate the billing advice based on the billing notice product setup. This advice is generated before the pay by date and not schedule due date for open line loans. The system will also create the new advice format for billing advice for open line loans with the following details:

- Loan account number
- Next Billing Date
- Available Credit Limit
- Amount Utilized
- Amount Financed (Loan Limit)
- Billing Period From

- Billing Period To
- Billed Date
- Payment Date
- Amount Due
- Minimum Amount Due
- Excess Payment (Will show the excess amount paid within the billing cycle)
- List of billed transactions

9.2.9 Processing the EMI Change Batch (EMIC)

The event EMI Change (EMIC) processes the changes on the Effective Date from which the EMI amount is applicable for the customer. Based on the parameters specified for EMI change, the EMIC event derives the new EMI amount for the customer. The new EMI amount is then compared with Minimum EMI and Maximum EMI amount maintained in the 'Account Details' screen. If the new EMI amount is beyond the minimum and maximum limits, it is set to the minimum or maximum limit amount, as applicable. The new EMI comes into effect only from the next schedule. The current schedule remains unaffected by the change in EMI. For a schedule, if the interest is greater than the EMI, the EMI is set to the interest amount and the principal amount is set to zero. With effective from the next schedule, the system sets the new EMI amount and calculates the future schedules.

9.3 Triggering User Defined Events

You can use the 'CL User Defined Events Triggering' screen to manually trigger the user defined events for CL accounts. You can invoke this screen by typing 'UDDCLEVT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

The screenshot shows a software interface titled 'Main Screen'. It contains several input fields for account and event information, a table for 'Amount Details', and a bottom navigation bar with tabs for 'MIS', 'Events', 'Charge', and 'Event Fields'. The 'Events' tab is currently selected.

Input Fields:

- Account Number *
- Branch Code *
- Event Sequence Number *
- Event Code
- Status
- Counter Party
- Currency
- Value Date
- Payment Remarks
- Default

Amount Details Table:

Amount Tag *	Description	Currency	Amount Paid	Settlement Branch	Settlement Account

Bottom Bar (Events Tab):

- Input By: Date Time
- Authorized By: Date Time
- Contract Status: Authorized
- Reversal: Input By: Date Time, Authorized By: Date Time
- Exit button

Here you need to specify the following details:

Account Number

Specify the account for which you want to trigger the user defined event. The adjoining option list displays all valid account numbers available in the system. You can select the appropriate one.

Branch Code

The system displays the code of the branch where the account resides.

Click 'Default' button. The system fetches values for the following fields based on the selected contract and displays them:

- Counter Party
- Currency
- Status

Event Sequence Number

The system displays the event sequence number.

Event Code

Specify the event that needs to be triggered for the selected account. The adjoining option list displays all events linked to the account. You can select the appropriate one.

A brief description of the event is displayed below.

Value Date

If the value date derivation rule has been maintained for the event code, the system will calculate the value date and display it here. However, you can change it.

Payment Remarks

Specify remarks pertaining to payment on the account.

Amount Details

Specify the following details.

Amount Tag

The amount tag is displayed based on the product-level maintenance of the specified account.

Description

The system displays a brief description of the amount tag.

You can view the following details:

- Contract Reference
- MIS Group
- Link to Group
- Input preference - Related reference/Related Account
- Related Account Number
- Related Reference Number
- MIS Head
- Floating Rate Code
- Floating Rate Spread
- Rate Type
- Rate at Pool Code/Contract Level
- Interest method
- Pool Code
- Reference Rate
- Cost Codes

The 'Transaction MIS' tab opens by default.

Here you can view the transaction MIS codes.

9.3.1.1 Composite MIS Code Tab

Click this tab to view composite MIS codes.

The screenshot shows a software window titled "MIS" with a blue header bar. The interface is divided into several sections:

- Top Section:** Contains "Contract Reference *" (text input), "MIS Group" (dropdown menu), and a checked checkbox for "Link To Group".
- Input Section:** Features two radio buttons: "Related Reference" (selected) and "Related Account". To the right are input fields for "Related Reference", "Related Account", and "MIS Head", each with a small icon.
- Floating Rate Section:** Includes a "Floating Rate" label, a "Rate Code" input field with an icon, and a "Spread" input field.
- Rate At Section:** Contains a "Rate Type" dropdown menu, an "Interest Method" dropdown menu, and radio buttons for "Pool Code" and "Contract Level". To the right are three stacked input fields, each with an icon.
- Table Section:** A tabbed interface with three tabs: "Transaction MIS Code", "Composite MIS Code" (which is active), and "Funds MIS Code". Below the tabs is a table with the following structure:

MIS Group	
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
- Bottom Section:** A dark bar containing four tabs: "Rate", "Amendment Rate", "Change Log", and "Balance Transfer Log". At the bottom right are "Ok" and "Exit" buttons.

9.3.1.2 Fund MIS Tab

Click this tab to view fund MIS codes.

9.3.2 Viewing Rate Details

Click 'Rate' button on the 'MIS' screen and invoke the 'Rate Details' screen.

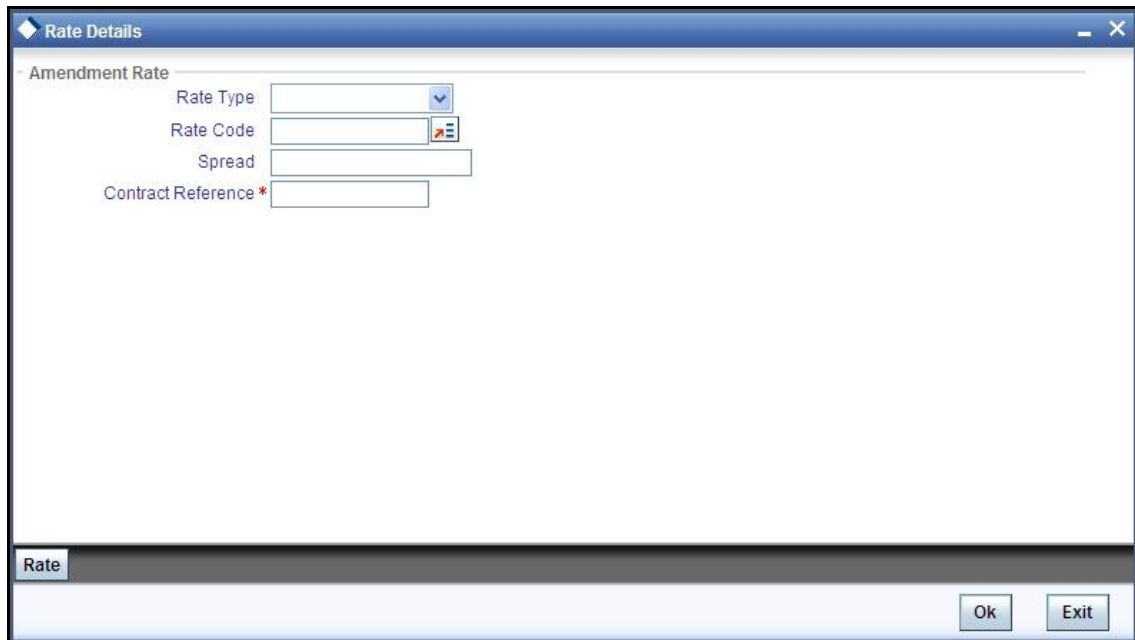
Here you can view the following details:

- Contract Reference Number
- Booking Rate

- Effective Date
- Refinance Rate

9.3.2.1 Viewing Amendment Rate Details

Click 'Amendment Rate' button and invoke the 'Rate Details' screen.



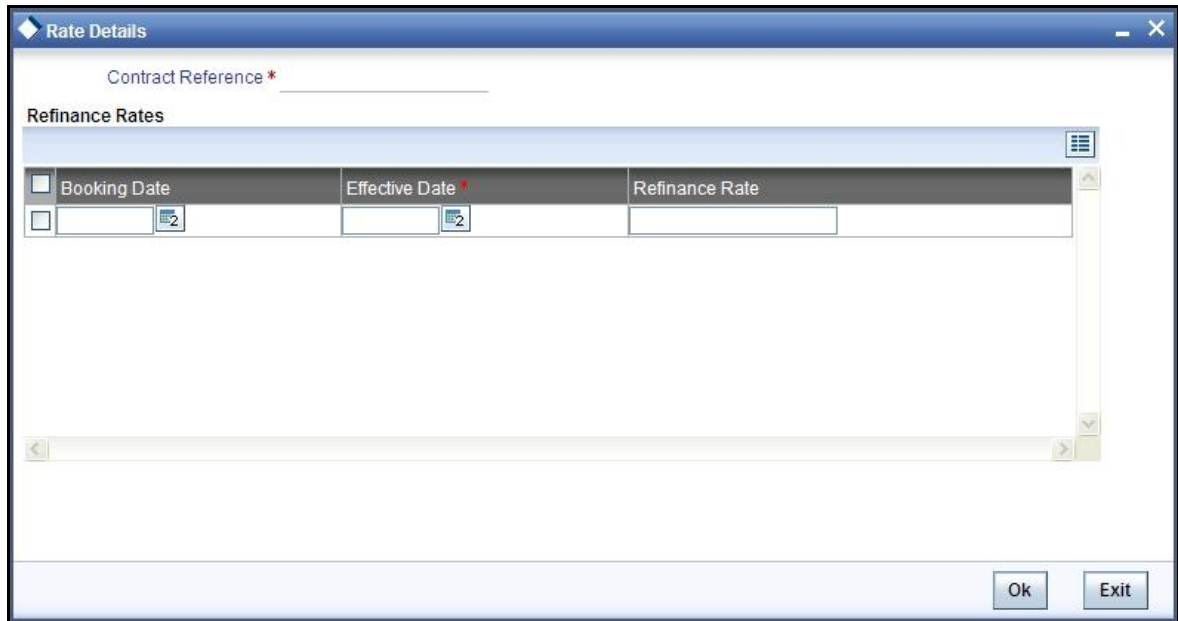
The screenshot shows a window titled "Rate Details" with a blue header bar. Below the header, the text "Amendment Rate" is displayed. There are four input fields: "Rate Type" (a dropdown menu), "Rate Code" (a text box with a small icon to its right), "Spread" (a text box), and "Contract Reference*" (a text box with an asterisk indicating it is required). At the bottom left of the window, there is a tab labeled "Rate". At the bottom right, there are two buttons: "Ok" and "Exit".

Here you can view the following details:

- Rate Type
- Rate Code
- Spread
- Contract Reference

9.3.2.2 Viewing Rate Details

Click 'Rate' button on the 'Rate Details' screen and invoke the 'Rate Details' screen.



The screenshot shows a window titled "Rate Details" with a "Contract Reference*" field. Below it is a section titled "Refinance Rates" containing a table with three columns: "Booking Date", "Effective Date*", and "Refinance Rate". Each column has a corresponding input field with a calendar icon. The "Effective Date*" field has a red asterisk. At the bottom right of the window are "Ok" and "Exit" buttons.

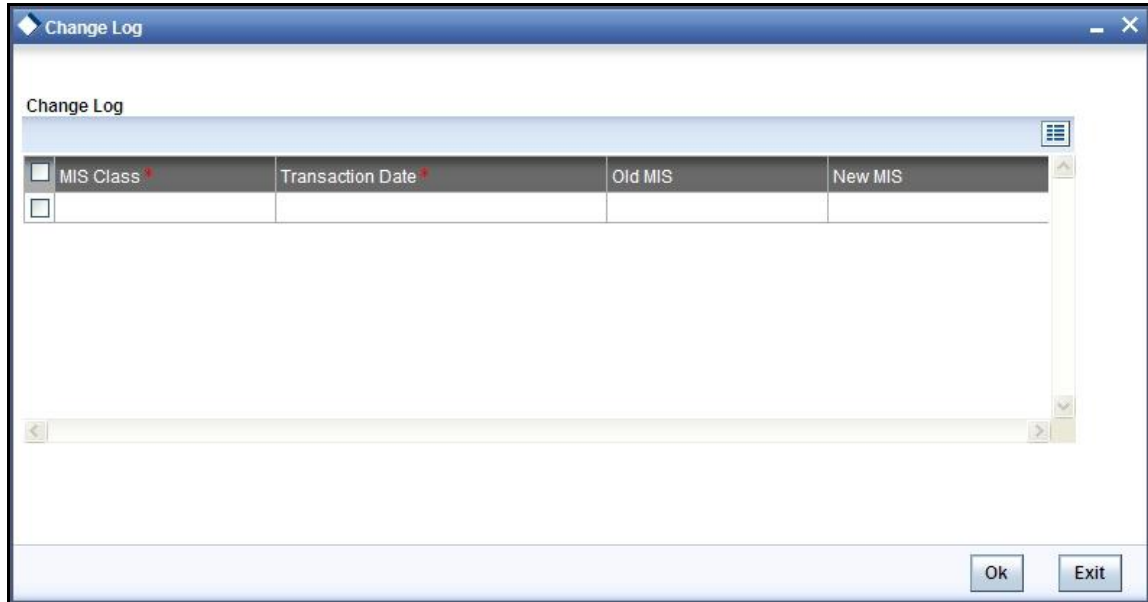
Booking Date	Effective Date*	Refinance Rate
<input type="text"/>	<input type="text"/>	<input type="text"/>

Here you can view the following details:

- Contract Reference Number
- Booking Rate
- Effective Date
- Refinance Rate

9.3.2.3 Viewing Change Log

Click 'Change Log' button on the 'MIS' screen and invoke the 'Change Log' screen.



If MIS reclassification occurs, through changing the MIS codes for transaction or composite classes, the System stores the changes made, in a Contract MIS Change Log. The following details are stored in the Contract MIS Change Log for the contract in respect of which the MIS reclassification occurred:

- Contract Reference Number
- MIS Class that was changed
- Date on which the change was made.
- The old code for the changed MIS Class (this information is stored only for the first amendment during a day)
- The new MIS code for the changed MIS class.

9.3.2.4 Viewing Balance Transfer Log

Click 'Balance Transfer Log' button on the 'MIS' screen and invoke the 'Balance Transfer Log' screen.

<input type="checkbox"/>	Branch	Period	Financial Year	GL Code	Transfer Indicator	MIS Class	Transaction Date	Old MIS	New
<input type="checkbox"/>									

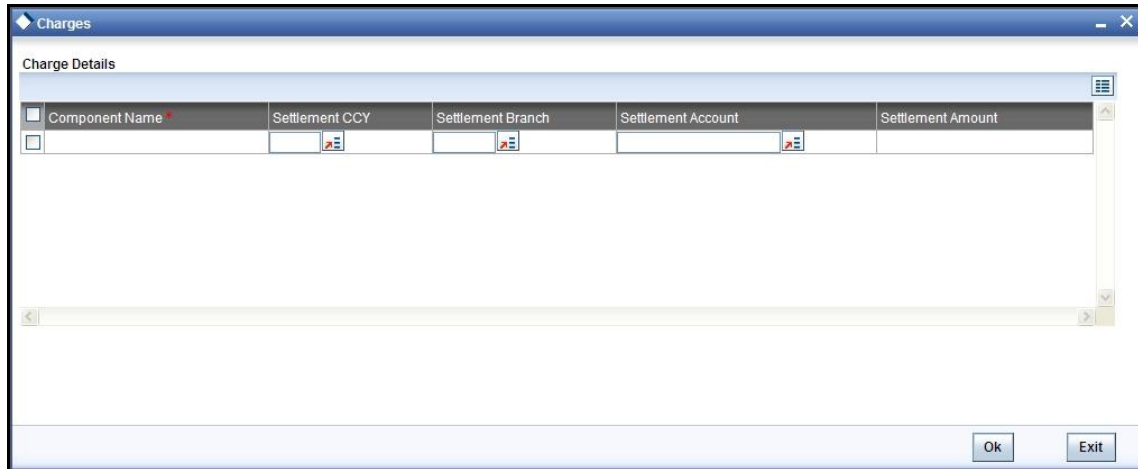
When an MIS reclassification occurs in respect of a the account, the balances in a GL associated with the old MIS code in each case are transferred to the GL for the new MIS code, if the option of transferring MIS balances upon reclassification has been set in the 'Chart of Accounts' screen for the GL.

You can view the following details:

- Contract Reference
- Branch
- Period
- Financial year
- Transfer Indicator
- MIS Class
- Transaction Date
- Old MIS
- New MIS
- Currency
- Amount
- Exchange Rate

9.3.3 Viewing Charge Details

Click 'Charge' button on the 'CL User Defined Events Triggering' screen and invoke the 'Charges' screen.



The screenshot shows a window titled 'Charges' with a sub-header 'Charge Details'. Below the header is a table with five columns: 'Component Name', 'Settlement CCY', 'Settlement Branch', 'Settlement Account', and 'Settlement Amount'. Each column has a small icon to its right. The table is currently empty. At the bottom right of the window are 'Ok' and 'Exit' buttons.

Component Name	Settlement CCY	Settlement Branch	Settlement Account	Settlement Amount
----------------	----------------	-------------------	--------------------	-------------------

You can view the following details:

- Component Name
- Settlement Currency
- Settlement Branch
- Settlement Account
- Settlement Amount

9.3.4 Viewing Event Details

Click 'Events' button on the 'CL User Defined Events Triggering' screen and invoke the 'Events Diary' screen.

The screenshot displays the 'Events Diary' application window. At the top, there are search filters for Branch, Account Number, Alternate Account Number, Customer Id, Customer Name, Product Code, Product Category, User Defined Status, Application Number, Value Date, Maturity Date, Amount Financed, Hamish Jiddayah Amount, Currency, Page, and Total Pages. Below the filters are 'Previous' and 'Next' buttons. A status bar shows 'Processed' and 'Unprocessed' counts. The main area is divided into three sections: 'Events', 'Advices', and 'Entries'. Each section contains a table with columns for various data points. The 'Events' table has columns for Sequence Number, Processed Date, Execution Due Date, Code, Description, and Cutoff. The 'Advices' table has columns for Document Number, Message Type, and View Message. The 'Entries' table has columns for Debit/Credit, Branch, Account Number, Account Currency, Event Foreign Currency Amount, Exchange Rate, and Event Local Currency Amount. At the bottom right, there is an 'Exit' button.

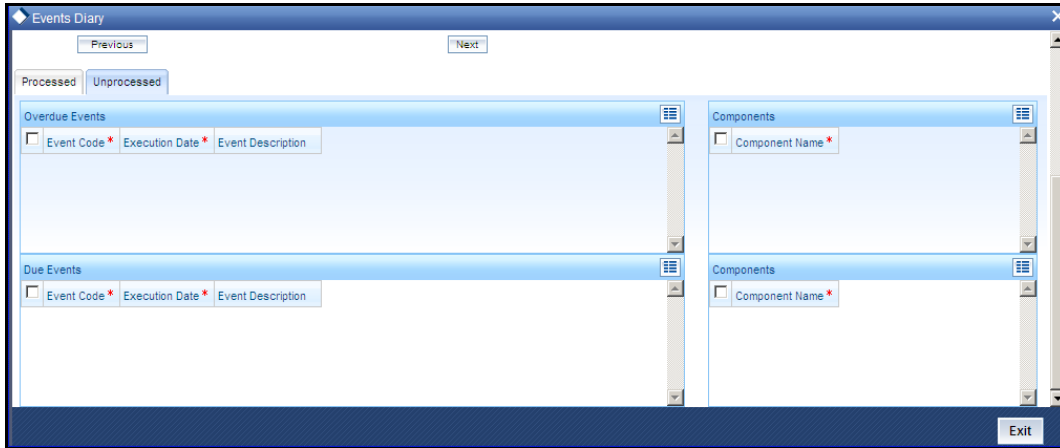
Sequence Number	Processed Date	Execution Due Date	Code	Description	Cutoff

Document Number	Message Type	View Message
		View

Debit/Credit	Branch	Account Number	Account Currency	Event Foreign Currency Amount	Exchange Rate	Event Local Currency Amount

9.3.4.1 Unprocessed Tab

Click this tab to view the unprocessed event details.



Refer the section 'Events Diary' in the chapter titled 'Account Creation' in this User Manual for details about the 'Events Diary' screen.

9.3.5 Viewing Event Fields

Click 'Event Fields' button on the 'CL User Defined Events Triggering' screen and invoke the 'Fields' screen.

Here you can view the UDFs and their values linked to the account.

Click save icon after specifying the details in order to trigger the event for the specified account. This record needs to be authorized for the event to be triggered.

Note that, you will not be able to perform any operation on the account on which there is an unauthorised event triggering record.

9.3.6 Processing Commission on Highest Debit Balance

Oracle FLEXCUBE allows you to calculate commission for the Highest Debit Balance for a particular month from the customer. Bank debits commission from the customer account and credit the same on HDB GL. System collects the data for the Highest Outstanding Balance for loans and displayed in the account screen.

You need to maintain a User Data element in the product for the HDB commission rate which gets defaulted to the Account Screen and you can mention HDB commission rate. To waive the HDB commission for an account the Commission rate should be 0.

For calculating the commission on highest debit balance, you have to define a user defined event and Charge component with "HIGH_OUT_BAL" as basis element should be linked to the HDBC event. Accounting entries for the charges should also be defined in the HDBC event. The event trigger can be either auto or manual.

9.3.6.1 Processing Commission Automatically at Month End

During post-EOTI batch programs; HDBC event gets triggered which is run only on month-ends (last working day for the month).

Charge component is linked with HDBC event with formula as,

$$(HIGH_OUT_BAL * DR_COM_RATE)/(100)$$

But bank can define its own formula to calculate the commission on HDB using the SDE "HIGH_OUT_BAL".



During parameterization the HDB commission GL should be the same for all IC and Loan/Mortgage products which system does not validate.

9.3.6.2 Processing Commission Automatically on Maturity

If the maturity date of the account is today, the commission on Highest Outstanding balance for that loan account is collected using another process in CL batch. You can maintain it in auto CL automatic process table. This process runs daily before the ALIQ process in CL batch. If the Automatic Liquidation (ALIQ) fails for an account, then the reversal of commission on Highest Outstanding balance should be done manually.

9.3.6.3 Processing Commission Manually

You can manually liquidate the commission for Highest Outstanding balance for a mortgage account using the 'Event Triggering' screen. Before doing a full liquidation, you have to manually trigger the HDBC event.

9.3.7 Processing Stamp Duty Tax

Oracle FLEXCUBE allows you to process Stamp Duty taxation through SCTX event. This event is triggered as part of a process in the CL batch running during post-EOTI. The process runs only on calendar quarter end days (last working day of the quarter).

9.3.7.1 Processing Stamp Duty Tax Manually

You can manually liquidate the stamp duty tax using the 'User Defined Event Triggering' screen. Before doing a full liquidation, you have to manually trigger the STDY event.

9.3.7.2 Processing Stamp Duty Tax Automatically

If the maturity date of the account is today, the Stamp Duty Tax on the outstanding debit balance loan and mortgage accounts which are getting fully liquidated is collected using another process in CL batch. You can maintain it in auto CL automatic process table. This process runs daily before the ALIQ process in CL batch. If the Automatic Liquidation (ALIQ) fails for an account, then the reversal of stamp duty tax is done manually.

9.4 Intermediary Commission batch run

The Intermediary commission batch run process is run at EOD to compute the values of existing volume level SDEs based on the ratio maintained for intermediary at CL account level.

Example 1:

Rule: RULE1

Condition: Disbursed Loan amount > 4000

Result: commission equal to (Disbursed Loan amount*0.5).

Assumption: intermediary 1 and intermediary 2 only linked with loan (LAN1).

Loan ID	LAN1
Total Loan disbursed	10000
Intermediary 1 (Ratio)	30
Intermediary 2 (Ratio)	70

During intermediary commission batch system considers the total disbursed amount for intermediary 1 as 3000 and for Intermediary 2 as 7000. Hence, system calculates only the commission for Intermediary 2.

Example 2:

Rule: RULE2

Condition: Disbursed Loan amount > 5000

Result: commission equal to (Disbursed Loan amount*0.5).

Assumption: intermediary 1 and intermediary 2 only linked with loans (LAN1 and LAN2).

Loan ID	LAN1	LAN2
Total Loan disbursed	10000	10000
Intermediary 1 (Ratio)	30	50
Intermediary 2 (Ratio)	70	50

During intermediary commission batch system considers total disbursed amount for intermediary 1 as 8000 (3000 from loan1 and 5000 from loan2) and for Intermediary 2 as 12000 (7000 from loan1 and 5000 from loan2). Hence, system calculates the commission for both Intermediary 1 and Intermediary 2.

Example 3:

Rule: RULE2

Condition: Loan Count > 1

Result: commission equal to (Loan amount * 0.5).

Assumption: intermediary 1 linked with only one loan (LAN1) and intermediary 2 only linked with two loans (LAN1 and LAN2).

During intermediary commission batch system calculates the total count of loans for both intermediary 1 and intermediary 2. System returns the value as 1 for Intermediary 1 and 2 for intermediary 2. Hence, system calculates the commission for Intermediary 2 only.

9.5 Processing Automatic Settlement of Partially Paid Installment Schedules

Oracle FLEXCUBE facilitates the automatic settlement of residual installments during EOD as a part of CLBATCH.

For intermediate and final installment schedules, the system will automate the manual liquidation of loans and schedule the MLIQ event. Also, the system will perform the automatic liquidation of loans and schedule the MLIQ event only during the following scenarios:

- When the partially paid installments is due on or before processing date. If an installment is due on holiday, then the system will trigger the MLIQ event on next working day EOD.
- When the 'Residual Amount', that is, the difference between amount due and amount paid is less than or equal to 'Residue Amount' and residual amount is less than or equal to the allowed percentage of residual amount defined at product level.

Additionally, the system will update the relevant accounts which meet the above criteria for schedule recalculation which will take place post 'MLIQ' event.

In case of bullet schedules, the system will automate the manual liquidation of loans and schedule the MLIQ event. Also, the system will perform the automatic liquidation of loans and schedule the MLIQ event only during the following scenarios:

- When the partially paid installments is due on or before processing date. If an installment is due on holiday, then the system will trigger the MLIQ event on next working day EOD.
- When the 'Residual Amount', that is, the difference between amount due and amount paid is less than or equal to 'Residual Amount in Bullet'.
- The system will trigger the MLIQ event for residue amount before penal calculation process and on the due date of the schedule in both the cases.

If a partial payment is applied post schedule due date, then the system will settle the residual amount online on the value date of the payment if the outstanding amount is:

- less than or equal to 'Residue Amount' and
- less than or equal to the allowed percentage of residual amount defined at product level

The system will charge the residual amount settled as part of the residual charge component due on the next schedule due date.

During MLIQ process, for intermediate schedules, the system will automatically settle the residual installments of manual liquidation loans by debiting a designated receivable head. For bullet schedules, it will be settled by debiting a designated expense head. If the loan is linked with a limit line, then the limit will be utilized.

Post MLIQ, during recalculation process, the system will reschedule all the affected accounts in order to populate residual installment amount in the residual charge component. On first payment, the system will collect the complete amount due for the residual charge component.

On reversal of a payment, the system will reverse the linked 'MLIQ' event which is processed on the schedule due date to settle the residual amount. Also, the residual charge component due amount will be made zero.

10. Annexure A

10.1 Accounting Entries for Consumer Lending

This section contains details of the suggested accounting entries that can be set up, for the Consumer Lending module of Oracle FLEXCUBE. The details of the suggested accounting entries are given event-wise.

10.2 Events

The following is an exhaustive list of events that can take place during the lifecycle of a consumer lending contract. In the subsequent paragraphs we shall examine the accounting entries and advices for each of the events listed below.

Event Code	Event Description
ACCR	Accrual
ADCH	ADHOC charge application
ALIQ	Auto liquidation
ARVN	Automatic Rate Revision
BADJ	Back Dated Adjustment
BNTC	Billing Notice Event
BOOK	Booking Of Contract
CAMD	Contract Amendment
CLOS	Closure for off balance sheet comp
CLOC	Closure of Commitment
DLINK	Payment made against a loan linked to a revolving commitment contract
DNTC	Delinquency Notice Event
DSBR	Disbursement
INIT	Contract Initiation
ISTM	Interest Statement Event
LCYP	LCY update processing
LIQB	Liquidation Tanking

Event Code	Event Description
LSTM	Loan Statement Event
LINK	Linking a Commitment to a loan account
MLIQ	Manual Liquidation
NOVA	Novation
PROV	Provisioning
READ	Readjustment Processing
REOP	Reopen of loan account
REVC	Reversal Of Contract
REVD	Reversal Of Disbursement
REVN	Rate Revision
REVP	Reversal Of Payment
RNOG	Re-Negotiation
ROLB	Roll Over Booking
ROLL	Roll Over Of Contract
REVL	Reversal of Linked Loan Account
SROL	Special Roll over
STSH	Installment Status Change
TAXC	Specific Tax Calculation
UDCN	UDE Cascade Change
USGR	Un-Secured GL Transfer Reversal
USGT	Unsecured GL Transfer
VAMB	Value Dated Amendment Booking
VAMI	Value Dated Amendment Initiation

Event Code	Event Description
YACR	Yield to Maturity based Discount Accrual
INLQ	Intermediary Liquidation
IMST	Intermediary Statement
PWOF	Partial Write Off
LRCL	User Defined Event
DSBR	Activation of Collateral
VAMI	Amendment of Collateral amount(Increase)/(Decrease)
CLOC	Closure/Cancellation of Collateral

10.3 **Accounting Roles**

In this section we have provided a list of sample accounting roles.

Accounting Role	Description
ASSETGL	The Customer GL to which the Loan Account movements are reported.
PRINCIPAL_LIQD	Principal Liquidated
PRINCIPAL_INCR	Principal Increased
COMPONENT_INC	Component Income
COMPONENT EXP	Component Expense
COMPONENT RIA	Component Received in Advance
COMPONENT PAY	Component Payable
COMPONENT REC	Component Receivable
COMPONENT PIA	Component Paid in Advance
BRIDGE GL	Intersystem Bridge GL
SETTLEMENT ACCOUNT	Customer Account Settled From / To
FEES_REC	Fees Receivable

Accounting Role	Description
CHARGES_REC	Adhoc Charges Receivable
IN_INTER_STMT	Intermediary Statement
PRINCIPAL_EXP_D	Principal Expense Doubt
LOAN_AC_DOUB	Loan Account Doubt
CONT_W_DOUB	Contingent Write Off Doubt
CONT_SUBS	Contingent Substandard
MAIN_INTEXP_DOUB	Maintenance Interest Expense Doubt
MAIN_INTREC_DOUB	Maintenance Interest Receivable Doubt
MIN_AMT_SCHODUE	Minimum Amount Due Amount for the latest billing period
PAY_BY_SCHODUE	Outstanding amount as of a particular date for the latest billing period
MIN_AMT_OVR_DAYS	Minimum Amount Due that has not been fully paid from a pay by date
SERVICE_ACCOUNT	Service Account

The following accounting entries for passed for DSBK event:

Accounting Role	Amount Tag	Dr/Cr
Asset	PRINCIPAL	Dr
CR_SETTLEMENT_BRIDGE	PRINCIPAL	Cr

Accounting Roles for the YACR Event

SI No	Accounting Role	Acquisition Type	Role Type
1.	EIMDISCRIA	Discount	Asset
2.	EIMDISCINC	Discount	Asset
3.	EIMPREMPIA	Premium	Asset
4.	EIMPREMEXP	Premium	Asset
5.	EIMINTADJREC	Par	Asset
6.	EIMINTADJINC	Par	Asset

When a loan account is eligible for residual installment settlement, the MLIQ accounting entries are passed by the system, instead of normal liquidation entries. The system performs the rule based accounting by passing the following entries:

Rule	Accounting Role	Amount Tag	Dr/Cr
RESID_INSTALLMENT_PAYMENT = 'N'	DR_SETTLE_BRIDGE	<COMPONENT>_LIQD	Debit
	<COMPONENT>REC	<COMPONENT>_LIQD	Credit
	DR_SETTLE_BRIDGE	PRINCIPAL_LIQD	Debit
	PRINCIPAL	PRINCIPAL_LIQD	Credit
RESID_INSTALLMENT_PAYMENT <> 'N'	DR_SETTLE_BRIDGE	<COMPONENT-1>_RESID	Debit
	<COMPONENT-1>REC	<COMPONENT-1>_RESID	Credit
	DR_SETTLE_BRIDGE	<COMPONENT-N>_RESID	Debit
	<COMPONENT-N>REC	<COMPONENT-N>_RESID	Credit
	DR_SETTLE_BRIDGE	PRINCIPAL_RESID	Debit
	PRINCIPAL	PRINCIPAL_RESID	Credit

The system will pass the following accounting entries for MLIQ event:

Accounting Role	Amount Tag	Debit/Credit	Remarks
DR_SETTLE_BRIDGE	<COMPONENT>_LIQD	Debit	Normal Interest/Charge/Penal component
<COMPONENT>REC	<COMPONENT>_LIQD	Credit	
DR_SETTLE_BRIDGE	<COMPONENT>_LIQD	Debit	Residual charge component
<COMPONENT>REC	<COMPONENT>_LIQD	Credit	
DR_SETTLE_BRIDGE	PRINCIPAL_LIQD	Debit	Principal component

Accounting Role	Amount Tag	Debit/Credit	Remarks
PRINCIPAL	PRINCIPAL_LIQD	Credit	

Accounting Roles for the DSBR Event

Accounting Role	Amount Tag	Debit/Credit
CONASSETOFF	PRINCIPAL_FWD	Cr
CONASSET	PRINCIPAL_FWD	Dr

Accounting Roles for the VAMI Event

Accounting Role	Amount Tag	Debit/Credit
CONASSETOFF	PRINCIPAL_FWD	Cr
CONASSET	PRINCIPAL_FWD	Dr
CONASSET	PRINCIPAL_DECR	Cr
CONASSETOFF	PRINCIPAL_DECR	Dr

Accounting Roles for the CLOC Event

Accounting Role	Amount Tag	Debit/Credit
CONASSET	COMM_UNUTIL	Cr
CONASSETOFF	COMM_UNUTIL	Dr

10.4 Accounting Entries after Securitization

The following entries are applicable only for securitization supporting products.

Event: DSBR

Amount Tag	GL Description	Debit/Credit
PRINCIPAL	SPV_SETTL_BRIDGE_DR	Dr
PRINCIPAL	CR_SETTL_BRIDGE	Cr
MAIN_INTRIA	DR_SETTL_BRIDGE	Dr
MAIN_INTRIA	SPV_SETTL_BRIDGE_CR	Cr

EVENT: STCH - STATUS CHANGE: NORM - SECR (SECURITIZATION EVENT)

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_OUTSTAND	SPV_SETTL_BRIDGE_DR	Dr
PRINCIPAL_OUTSTAND	LOAN_ACCOUNT	Cr
MAIN_INT_ACCRUED	SPV_SETTL_BRIDGE_DR	Dr
MAIN_INT_ACCRUED	MAIN_INTREC	Cr
MAIN_INT_OD	SPV_SETTL_BRIDGE_DR	Dr
MAIN_INT_OD	MAIN_INTINC	Cr
ODPR_PNLTY_OD	SPV_SETTL_BRIDGE_DR	Dr
ODPR_PNLTY_OD	ODPR_PNLTY_INC	Cr
ODIN_PNLTY_OD	SPV_SETTL_BRIDGE_DR	Dr
ODIN_PNLTY_OD	ODIN_PNLTY_INC	Cr
MAIN_INT_RIABAL	MAININT_RIA	Dr
MAIN_INT_RIABAL	SPV_SETTL_BRIDGE_CR	Cr

EVENT: STCH - STATUS CHANGE: SECR - NORM (DE-SECURITIZATION/PURCHASE EVENT)

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_OUTSTAND	LOAN_ACCOUNT	Dr
PRINCIPAL_OUTSTAND	SPV_SETTL_BRIDGE_CR	Cr
MAIN_INT_ACCRUED	MAIN_INTREC	Dr
MAIN_INT_ACCRUED	SPV_SETTL_BRIDGE_CR	Cr
MAIN_INT_OD	MAIN_INTREC	Dr
MAIN_INT_OD	SPV_SETTL_BRIDGE_CR	Cr
ODPR_PNLTY_OD	ODPR_PNLTYREC	Dr
ODPR_PNLTY_OD	SPV_SETTL_BRIDGE_CR	Cr
ODIN_PNLTY_OD	ODIN_PNLTYREC	Dr
ODIN_PNLTY_OD	SPV_SETTL_BRIDGE_CR	Cr
MAIN_INT_RIAEXP	SPV_SETTL_BRIDGE_DR	Dr

Amount Tag	GL Description	Debit/Credit
MAIN_INT_RIAEXP	MAININT_RIA	Cr

EVENT: LIQD (INTEREST) - IF SALE IS HAPPENED IN THE ACCRUAL PERIOD

When Interest is capitalized:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_CAP	SPV_SETTL_BRIDGE_DR	Dr
MAIN_INT_CAP	MAIN_INTREC	Cr

When Interest is liquidated:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_LIQD	SPV_SETTL_BRIDGE_DR	Dr
MAIN_INT_LIQD	SPV_SETTL_BRIDGE	Cr

When Interest is waived:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_WAVD	SPV_EXPENSE	Dr
MAIN_INT_WAVD	SPV_SETTL_BRIDGE_CR	Cr

When Principal is liquidated:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_LIQD	DR_SETTL_BRIDGE	Dr
PRINCIPAL_LIQD	SPV_SETTL_BRIDGE_CR	Cr

When Principal is waived:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_WAVD	SPV_EXPENSE	Dr
PRINCIPAL_WAVD	SPV_SETTL_BRIDGE_CR	Cr

EVENT: ACCR

Amount Tag	GL Description	Debit/Credit
MAIN_INT_ACCR	SPV_ACCR	Dr
MAIN_INT_ACCR	SPV_ACCR	Cr

EVENT: ADCH

Amount Tag	GL Description	Debit/Credit
ADCH_CHG_ADCH	DR_SETTL_BRIDGE	Dr
ADCH_CHG_ADCH	SPV_SETTL_BRIDGE_CR	Cr

EVENT: VAMB

Amount Tag	GL Description	Debit/Credit
HANDLNG_CHG_LIQD	DR_SETTL_BRIDGE	Dr
HANDLNG_CHG_LIQD	SPV_SETTL_BRIDGE_CR	Cr

EVENT: VAMI

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_INCR	SPV_SETTL_BRIDGE_CR	Dr
PRINCIPAL_INCR	CR_SETTL_BRIDGE	Cr

EVENT: ROLL

When Principal is increased:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_INCR	SPV_SETTL_BRIDGE_DR	Dr
PRINCIPAL_INCR	CR_SETTL_BRIDGE	Cr

When Interest is liquidated:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_LIQD	DR_SETTL_BRIDGE	Dr
MAIN_INT_LIQD	SPV_SETTL_BRIDGE_CR	Cr

When Principal is liquidated:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_LIQD	DR_SETTL_BRIDGE	Dr
PRINCIPAL_LIQD	SPV_SETTL_BRIDGE_CR	Cr

During Interest rollover:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_ROLL	LOAN_ACCOUNT	Cr
MAIN_INT_ROLL	SPV_SETTL_BRIDGE_DR	Dr

When Principal is waived:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_WAVD	SPV_EXPENSE	Dr
PRINCIPAL_WAVD	SPV_SETTL_BRIDGE_CR	Cr

When Interest is waived:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_WAVD	SPV_EXPENSE	Dr
MAIN_INT_WAVD	SPV_SETTL_BRIDGE_CR	Cr

EVENT-RNOG

When Principal is liquidated:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_LIQD	DR_SETTL_BRIDGE	Dr
PRINCIPAL_LIQD	SPV_SETTL_BRIDGE_CR	Cr

When Interest is liquidated:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_LIQD	DR_SETTL_BRIDGE	Dr
MAIN_INT_LIQD	SPV_SETTL_BRIDGE_CR	Cr

When Principal is waived:

Amount Tag	GL Description	Debit/Credit
PRINCIPAL_WAVD	SPV_EXPENSE	Dr
PRINCIPAL_WAVD	SPV_SETTL_BRIDGE_CR	Cr

When Interest is waived:

Amount Tag	GL Description	Debit/Credit
MAIN_INT_WAVD	SPV_EXPENSE	Dr
MAIN_INT_WAVD	SPV_SETTL_BRIDGE_CR	Cr

EVENT-LRCL

Amount Tag	Account Role	Debit/Credit
UAMT_LOAN_RCLS	Loan Account	Cr
UAMT_LOAN_RCLS	Loan Account	Dr

10.5 Amount Tags

The following entries are applicable only for securitization supporting products.

Amount Tag	Description
PRINCIPAL_OUTSTAND	Sum of principal overdue and Principal outstanding
MAIN_INT_OD	Sum of Main interest over due
ODPR_PNLTY_OD	Sum of overdue principal penalty component
ODIN_PNLTY_OD	Sum of overdue interest penalty component
MAIN_INT_RIABAL	Balance of RIA (RIA - sum of interest paid previous months + occurred till date)
MAIN_INT_RIAEXP	RIA expected from SPV during Buyback
ACCR_REC	This fetches the accrual amount of a component (Only FNG/Insurance component) which is not settled. Accrual amount is derived based on the accrual frequency and schedule days. If component accrual frequency is daily system will derive daily accrual amount; if component accrual is "Accrual on Start Date" system will derive full amount.

Amount Tag	Description
ACCR_RIA	This fetches the accrual amount of a component (Only FNG/Insurance component) which is already settled in advance. Accrual amount is derived based on the accrual frequency and schedule days. If component accrual frequency is daily system will derived daily accrual amount; if component accrual is "Accrual on Start Date" system will derive full amount.

10.6 Event-wise Advices

In this section we will discuss the suggested events and advices that should be generated for that particular event in the life cycle of Consumer Lending.

BOOK

The system uses this event to enter details of a loan account. However, at this stage the account is not initialized thus there will not be a change in the balance but you can perform other activities (processing fee etc) for the loan account. The accounting entries passed will be either Contingent Entries for disbursement or component liquidations entries.

Advice Name	Description	Format Name
CL_CONT_ADV	Contract Advice	CL_CONTR_STMT

On BOOK event of a commitment contract the following accounting entries are passed:

Accounting Role	Amount Tag	Dr./Cr. Indicator
CONTGL	PRINCIPAL_FWD	Debit
CONTOFF	PRINCIPAL_FWD	Credit

INIT

The system uses this event to initiate a loan with a value date as the date of initiation. However, you can not disburse the loan under this event.

Advice Name	Description	Format Name
CL_INIT_ADV	Initiation Advice	CL_INIT_ADV
CL_CAP	Capitalization Advice	CL_CAP_ADV
CL_CONT_ADV	Contract Advice	CL_CONTR_STMT

Advice Name	Description	Format Name
CLST_SUMMARY	Loan Summary Statement Advice	CL_LOAN_SUMMARY
COUPON	Coupon Advice	ADV_COUPON

DSBR

This event is marked by the disbursement of the loan amount. You can attach credit notes and banker's cheque advises to the disbursement event only. The disbursement may be done manually or can be triggered by a disbursement schedule. The loan account will have debit balances after total disbursement.

Advice Name	Description	Format Name
CR_ADV	Credit Advice	CL_CR_ADV
CLST_DETAILS	Loan Detailed Statement Advice	CL_LOAN_DETAIL
CLST_SUMMARY	Loan Summary Statement Advice	CL_LOAN_SUMMARY
TAX_ADVICE	Tax Advice	CL_TAX_ADVICE
CL_CREDIT_NTC	Credit Note Advice (when settlement mode is credit note - CNT)	CL_CREDIT_NTC
CL_PMT_SCHADV	Payment Schedule Advice	CL_PMT_SCHADV
CL_INS_ADVICE	Instrument Advice (when settlement mode is INS)	CL_INS_ADVICE

The entries passed are:

Accounting Role	Amount Tag	Dr /Cr
LOAN_AC	PRINCIPAL	Dr
CR_SETTLEMENT_BRG	PRINCIPAL	Cr



Note the following:

- The loan account of the customer reports to an internal GL of the bank, determined by the Role to Head mapping done at the product level.
- A settlement bridge account is used since there is a probability of the customer account being present in another system which is capable of interfacing with Oracle FLEXCUBE. During the reconciliation process, the appropriate customer account in the relevant system is credited with the loan amount.

ACCR

The accrual of the various components will be triggered based on the accrual parameters you maintain at the product level.

The following accounting entries are passed for this event:

For Interest Accrual

Accounting Role	Amount Tag	Dr /Cr
INT_REC	INT_ACCR	Dr
INT_INC	INT_ACCR	Cr

For Penalty Interest Accrual

Accounting Role	Amount Tag	Dr /Cr
PENAL_INT_REC	PENAL_INT_ACCR	Dr
PENAL_INT_INC	PENAL_INT_ACCR	Cr

INLQ

This event is triggered as a batch process for the Intermediary Liquidation based on the product event advice maintenance. It provides basic information about the Intermediary and the corresponding commission settlement.

Advice Name	Description	Format Name
IN_INTER_CR	Intermediary Credit	INTER_CR_ADV

INCH

This event is triggered as a batch process for the Intermediary Liquidation based on the product event class maintenance. It provides basic information about the Intermediary and charge collected because of pre-payment and late payment by the customer.

Advice Name	Description	Format Name
IN_INTER_DR	Intermediary Debit	INTER_DR_ADV

IMST

This event is triggered as per the statement frequency maintained at the Intermediary Level. It provides basic information about the Intermediary and the corresponding commission/charge settlements.

Advice Name	Description	Format Name
IN_INTER_STMT	Intermediary Statement	IN_INTER_STMT

ALIQ and MLIQ

Depending on the mode of liquidation opted for, whether automatic or manual, the appropriate event is triggered. A batch process will be triggered at EOD for payments that are marked for auto liquidation.

ALIQ

Advice Name	Description	Format Name
DR_ADV	Debit Advice	CL_DR_ADV
DELINQYADV	Delinquency Advice	CL_DELQ_ADV

MLIQ

Advice Name	Description	Format Name
BILNOTC	Billing Advice	CL_BILL_ADVC
DELINQYADV	Delinquency Advice	CL_DELQ_ADV
PAYMENT_ADVICE	Payment Advice	CL_PMT_ADV

The accounting entries for these events will be as follows:

Principal Repayment

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	PRINCIPAL_LIQD	Dr
LOAN_AC	PRINCIPAL_LIQD	Cr

Interest Repayment

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	INT_LIQD	Dr
INT_REC	INT_LIQD	Cr
INTERNAL_GL	MAIN_INT_WHLD	Dr
MAIN_INTREC	MAIN_INT_WHLD	Cr

Penalty Interest Repayment

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	PENAL_INT_LIQD	Dr
PENAL_INT_REC	PENAL_INT_LIQD	Cr

Following are the accounting entries passed for the manual repayment of loan by cash:

Accounting Role	Amount Tag	Dr /Cr
DR_SETTL_BRIDGE	PRINCIPAL_LIQD	DR
LOAN_ACCOUNT	PRINCIPAL_LIQD	CR
DR_SETTL_BRIDGE	MAIN_INT_LIQD	DR
MAIN_INT_REC	MAIN_INT_LIQD	DR

LINK

This event is triggered when a commitment is linked to a consumer lending loan account. LINK event increases the utilization of the commitment amount and the contingent entries passed at the time of INIT is reversed upto the extent of linked amount.

Accounting Role	Amount Tag	Dr./Cr. Indicator
ASSETGL	COMMUTIL_INCR	Credit
ASSETOFF	COMMUTIL_INCR	Debit
DR_SETTL_BRIDGE	<Charge Comp>_LIQD	Debit
CHARGE_COMPONENT_INC	<Charge Comp>_LIQD	Credit

DLNK (Delink)

This event is triggered when payment is made against a loan, which is linked to a revolving commitment contract, Delink decreases the utilization of commitment amount.

Accounting Role	Amount Tag	Dr./Cr. Indicator
ASSETGL	COMMUTIL_DECR	Debit
ASSETOFF	COMMUTIL_DECR	Credit

STCH

This event is triggered when a status change occurs. It could be a Forward Status Change (FSTC) where the loan moves from one adverse status to another or a Backward Status Change (BSTC) wherein, on repayment of overdue installments, a reversal of status takes place. The status derivation rule is used to resolve the status. The change may occur due to a status rule being activated. If the number of days by which a component becomes overdue, exceeds the allowed number of days (may be referred to as the grace period), the component can undergo a status change if a status rule is defined with such a criteria. A status change is triggered if any condition defined for the rule is satisfied.

The accounting entries, if maintained for the events (FSTC and BSTC) will be triggered. The accounting role provided will be the same for all the changes. However, the Role to Head mapping rules will resolve the entries to the appropriate accounts for each status.

Interest accrual for status 'ACTIVE'

Accounting Role	Amount Tag	Dr /Cr
INT_REC (Mapped to a Real Asset)	INT_ACCR	Dr
INT_INC (Mapped to a Real Income GL)	INT_ACCR	Cr

Interest accrual for status 'PAST DUE'

Accounting Role	Amount Tag	Dr /Cr
INT_REC (Mapped to a Contingent Asset)	INT_ACCR	Dr
INT_INC (Mapped to a Contingent Liability)	INT_ACCR	Cr

CAMD, VAMB and VAMI

These statuses are triggered as a result of making amendments to a loan.

CAMD (Account Amendment)

Any amendment to the parameters of the account will create a new version of the loan. These changes will not have any implications on the financial attributes of the loan.

Advice Name	Description	Format Name
CLAMDADV	Amendment Advice	CL_AMD_ADV

VAMB (Booking of a Value Dated Amendment)

This event is triggered when you book a value dated amendment.

You can book for an amendment of the following:

- Maturity date
- Principal Increase
- Rate change

The batch program will identify the changes booked and the same is triggered appropriately on the value date by the VAMI event.

Advice Name	Description	Format Name
CLAMDADV	Amendment Advice	CL_AMD_ADV

VAMI (Initiation of a Value Dated Amendment)

This event will pick up the future dated VAMBs and on the value date, initiate the same.

Advice Name	Description	Format Name
CL_PMT_SCHADV	Payment Schedule Advice	CL_PMT_SCHADV

The accounting entries for an increase in principal will be as follows:

Accounting Role	Amount Tag	Dr /Cr
LOAN_AC	PRINCIPAL_INCREASED	Dr
CR_SETTLEMENT_BRG	PRINCIPAL_INCREASED	Cr
DR_SETTL_BRIDGE	<Charge Comp>_LIQD	Dr

Accounting Role	Amount Tag	Dr /Cr
PROC_CHARGEINC	<Charge Comp>_LIQD	Cr

Any change to Rate and Tenor (Maturity Date) will alter the original loan schedules.

ROLL

This event is triggered when a loan is renewed with new terms. Rollover will have either a combination of liquidation and rollover of Principal. It can also have liquidation of Interest and penalty Interest.

Advice Name	Description	Format Name
CLAMDADV	Amendment Advice	CL_AMD_ADV
CL_ROLL_ADV	Rollover Advice	CL_ROLL_ADV
PAYMENT_ADVICE	Payment Advice	CL_PMT_ADV
CL_PMT_SCHADV	Payment Schedule Advice	CL_PMT_SCHADV

The entries passed for rollover of the Principal are as follows:

Accounting Role	Amount Tag	Dr /Cr
CR_SETTLEMENT_BRG	PRINCIPAL_ROLL	Cr
LOAN_AC	PRINCIPAL_ROLL	Dr

For liquidation of Principal, the following entries are passed:

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	PRINCIPAL_LIQD	Dr
LOAN_AC	PRINCIPAL_LIQD	Cr

For liquidation of Interest and Penalty Interest, the entries are:

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	LIQD_AMT	Dr
INT_REC	INT_LIQD	Cr
PENAL_INT_REC	PENAL_INT_LIQD	Cr

Accounting Role	Amount Tag	Dr /Cr
INTERNAL_GL	MAIN_INT_WHLD	Dr
MAIN_INTREC	MAIN_INT_WHLD	Cr

You may encounter the following cases:

Case 1: Rollover only Principal Outstanding; Pay Interest & Penalty Outstanding

In this case, both 'PRINCIPAL_LIQD' and 'PRINCIPAL_ROLL' will be zero and hence the 'LOAN ACCOUNT' balance is not affected.

The Outstanding Interest and Principal will be liquidated. Referring to the accounting entries above,

- INT_LIQD = Interest Outstanding
- PENAL_INT_LIQD = Penalty Interest Outstanding
- LIQD_AMT = INT_LIQD + PENAL_INT_LIQD (If Netting is 'ON' and both have the same Settlement Account).

Case 2: Rollover Principal + Interest Outstanding; Pay Penalty Outstanding

In this case,

- PRINCIPAL_LIQD = 0,
- PRINCIPAL_ROLL = INT_ROLL (which is the Interest Rolled over as Principal);
- PENAL_INT_LIQD = Penalty Interest Outstanding
- LIQD_AMT = PENAL_INT_LIQD (If Netting is on and both have the same Settlement Account).

Case 3: Rollover Principal + Interest + Penalty Outstanding

$$\text{PRINCIPAL_ROLL} = \text{INT_ROLL} + \text{PENAL_INT_ROLL}$$

$$\text{LIQD_AMT} = 0$$

Case 4 - a: Rollover Special Amount, Amount > Principal Outstanding

This is in effect a disbursement. Therefore,

$$\text{PRINCIPAL_ROLL} = \text{SPECIAL_AMOUNT} - \text{PRINCIPAL_OUTSTANDING}$$

Since the rolled over amount is greater than the outstanding principal, it will be positive and hence an increase in the loan amount is registered.

Case 4 – b: Rollover Special Amount, Amount < Principal Outstanding

This results in a decrease in Principal and hence

PRINCIPAL_ROLL = SPECIAL_AMOUNT – PRINCIPAL_OUTSTANDING will lead to a negative amount which will reduce the Dr Balance on the Loan Account.

SROL – Special Roll-over

This event is triggered when a roll-over is done and it involves a change in the currency, product and customer.

Advice Name	Description	Format Name
CLAMDADV	Amendment Advice	CL_AMD_ADV
CL_ROLL_ADV	Roll-over Advice	CL_ROLL_ADV

RNOG – Re-negotiation

This event is triggered when a customer is not being able to honor the terms and conditions of the credit. In such a situation, the client re-negotiates the terms and conditions of the credit before maturity date.

Advice Name	Description	Format Name
CLAMDADV	Amendment Advice	CL_AMD_ADV
PAYMENT_ADVICE	Payment Advice	CL_PMT_ADV

NOVA – Novation

This event is triggered when a primary customer is changed.

Advice Name	Description	Format Name
CLAMDADV	Amendment Advice	CL_AMD_ADV

REVC – Loan Reversal

This event is triggered when a loan is withdrawn. This will pass the DSBR entries with a reversal of signs (-ve) for the amounts, as follows:

Accounting Role	Amount Tag	Dr /Cr
LOAN_AC	- PRINCIPAL	Dr

Accounting Role	Amount Tag	Dr /Cr
CR_SETTLEMENT_BRG	- PRINCIPAL	Cr

REVP - Payment Reversal

The latest payment made, both auto and manual, will be reversed during this event. This will pass the ALIQ or MLIQ event selected with a reversal of signs for the amounts.

Reversal of Principal Repayment

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	- PRINCIPAL_LIQD	Dr
LOAN_AC	- PRINCIPAL_LIQD	Cr

Reversal of Interest Repayment

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	- INT_LIQD	Dr
INT_REC	- INT_LIQD	Cr

Reversal of Penalty Interest Repayment

Accounting Role	Amount Tag	Dr /Cr
DR_SETTLEMENT_BRG	- PENAL_INT_LIQD	Dr
PENAL_INT_REC	- PENAL_INT_LIQD	Cr

REVN – Periodic Rate Revision

This will change the Floating Interest Rates based on the periodicity that you maintain.

Advice Name	Description	Format Name
CL_INT_STMT	Interest Statement Advice	CL_INT_STMT
RATECH_ADV	Rate Change Advice	CL_RTCH_ADV

ARVN – Automatic Rate Revision

This will change the Floating Rate as and when the rate changes.

Advice Name	Description	Format Name
CL_INT_STMT	Interest Statement Advice	CL_INT_STMT
RATECH_ADV	Rate Change Advice	CL_RTCH_ADV

UDCH – User Defined Element Value Changes

This event will be triggered whenever there is a change in the UDE values. This will be required to have Rate revision advices sent to the customers.

YACR – Yield to Maturity Discount Accrual

This event will be triggered for the computation of IRR. The following accounting entries will be passed:

Accounting Role	Amount Tag	Dr /Cr
EIMDISCRJA	EIM_ACCR	Dr
EIMDISCINC	EIM_ACCR	Cr
EIMPREMEXP	EIM_ACCR	Dr
EIMPREMPIA	EIM_ACCR	Cr

If refunding needs to be done as part of with complete pre-payment, the following entries should be passed in addition to the ones specified above:

Accounting Role	Amount Tag	Dr /Cr
<Charge Comp>_RIA	EIM_ADJ	Dr
CR_SETTL_BRIDGE	EIM_ADJ	Cr
DR_SETTL_BRIDGE	EIM_ADJ	Dr
<Charge Comp>_PIA	EIM_ADJ	Cr

CLIQ – Charge Liquidation

This event triggers the liquidation of charges applicable to the loan accounts. You need to set up the following entries for this event:

Accounting Role	Amount Tag	Dr /Cr
DR_SETTL_BRIDGE	<Charge Comp>_LIQD	Dr
<Charge Comp>_RIA	<Charge Comp>_LIQD	Cr
CR_SETTL_BRIDGE	<Charge Comp>_LIQD	Dr
<Charge Comp>_PIA	<Charge Comp>_LIQD	Cr

CLOC Event

Accounting Role	Amount Tag	Dr./Cr. Indicator
CONTGL	COMM_UNUTIL	Credit
CONTOFF	COMM_UNUTIL	Debit

CLOS Event

In case of loan account closure, system will have to move the amount available from service account to the customers settlement account.

Accounting Role	Amount Tag	Dr./Cr. Indicator
CR_SETTL_BRIDGE	CREDIT_BAL	Credit
SERVICE_ACCOUNT	CREDIT_BAL	Debit

Accounting Entries for RML – Reverse Mortgage Loan

DSBR Event

Accounting Role	Amount Tag	Dr/Cr
LOAN_ACCOUNT	PRINCIPAL	Dr
CR_SETTL_BRIDGE	PRINCIPAL	Cr

ACCR Event

Accounting Role	Amount Tag	Dr/Cr
MAIN_INTREC	MAIN_INT_ACCR	Dr

Accounting Role	Amount Tag	Dr/Cr
MAIN_INTINC	MAIN_INT_ACCR	Cr

MLIQ/ALIQ Event

Accounting Role	Amount Tag	Dr/Cr
DR_SETTL_BRIDGE	PRINCIPAL_LIQD	Dr
LOAN_ACCOUNT	PRINCIPAL_LIQD	Cr
DR_SETTL_BRIDGE	PRINCIPAL_EXCESS	Dr
PRINCIPALPAY	PRINCIPAL_EXCESS	Cr
PRINCIPALEXP	PRINCIPAL_WAVD	Dr
LOAN_ACCOUNT	PRINCIPAL_WAVD	Cr
DR_SETTL_BRIDGE	MAIN_INT_LIQD	Dr
MAIN_INTREC	MAIN_INT_LIQD	Cr
MAIN_INTEXP	MAIN_INT_WAVD	DR
MAIN_INTREC	MAIN_INT_WAVD	CR

PWOF-Partial Write Off

This event triggers the Partial Write Off in CL. You need to set up the following entries for this event:

Account Role	Amount Tag	Dr/Cr
PRINCIPAL_EXP_D	PRINCIPAL_PWOF	Debit
LOAN_AC_DOUB	PRINCIPAL_PWOF	Credit
CONT_W_DOUB	MAIN_INT_PWOF_CONT	Debit
CONT_SUBS	MAIN_INT_PWOF_CONT	Credit
MAIN_INTEXP_DOUB	MAIN_INT_PWOF	Debit
MAIN_INTREC_DOUB	MAIN_INT_PWOF	Credit

PROV - Provision

The event creates provisions for loan accounts. You will need to set up the following entries for this event:

Accounting Role	Amount Tag	Dr /Cr
PROVISIONEXP	PROVISION_PROV	Dr
PROVISIONREC	PROVISION_PROV	Cr
PROVISIONREC	PROVISION_WBCK	Dr
PROVISIONEXP	PROVISION_WBCK	Cr

11. Reports

11.1 Introduction

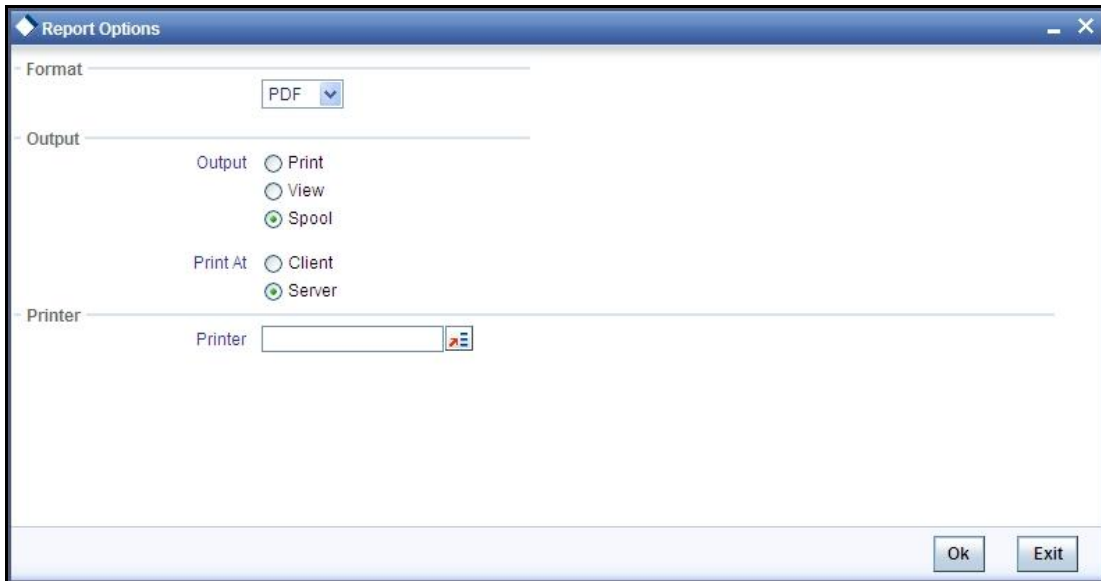
During the day, or at the end of the day, you may want to retrieve information on any of the several operations that were performed during the day in your bank. You can generate this information in the form of reports in Oracle FLEXCUBE.

For every module you can generate reports, which give you data about the various events in the life of a specific contract, or across contracts, at a specific point in time. You can have analysis reports, daily reports, exception reports (reports on events that ought to have taken place on the contract but have not, due to various reasons), history reports and so on. A set of report formats is pre-defined for every module.

11.1.1 Generating Reports

From the Application Browser, select the Reports option. A list of all the modules to which you have access rights are displayed in the screen. When you click on a module, all the reports for which you have access rights under the selected module are displayed. Click on the report you want to generate. You will be given a selection Criteria based on which the report would be generated.

Click 'OK' button when you have specified your preferences. The 'Print Options' screen gets displayed, where you can specify the preferences for printing the report.



In this screen, you can indicate the following preferences for printing the report.

Format

Select the format in which you want the report to be generated from the options provided in the drop-down list. The following options are available:

- HTML
- RTF
- PDF
- Excel

Output

Select the output for the report from the options provided. The following options are available:

- Print – select this option if you wish to print the report
- View – select this option if you wish to view the contents of the report
- Spool – select this option if you wish to spool the report for further use

Printer

Specify the name of the printer or select it from the option list provided. All the configured printers are displayed in the list.

This is applicable only if you have specified the output as 'Print'.

11.1.2 Contents of the report

The contents of the report are discussed under the following heads:

Header

The Header section of the report carries the title of the Report, information on the User who generated the report, the branch code, the date and time and the page number of the report.

Body of the report

The actual contents of the report are displayed in this section. It is detailed for each report, in the subsequent sections of this document.

11.2 Accrual Control List

The accrual control journal gives the details of accruals done on loan contracts, as of a specific date.

This report shows the Events and Component details for each account and will be generated for a specific combination of the Account Number, Event Date and Branch Name.

The Component and Item details will be displayed based on Events and Account Number.

You can invoke this report screen by typing 'CLRPACCR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually, the report will list the accounts whose Accrual Processing Date is equal to the date that you specify in the screen CL Accrual Control List.



Contents of the Report

The options that you have specified while generating the report are printed at the beginning of the report. Apart from the header the following information is provided for each contract:

Body of the Report

Account Number	The account number of the contract
Status	The status of the loan contract

Component	This is the component of the loan against which accrual entries are passed
Currency	This is the component currency. If not specified at the Component level, the loan currency is displayed
Current Accrual	This is the amount for which accrual entries are passed for the current month
Value Date	The Value Date of the contract

11.3 **Accrual Control List Summary**

The Accrual Control List Summary report summarizes the details of accruals product wise.

Contents of the Report

Apart from the header the following information is provided for each contract:

Body of the Report

Product	This is the product for which the summary report is being generated
Status	The status of the loan contract under the product
Component	This is the component of the loan against which accrual entries are passed, for the contract under the product
Ccy	This is the component currency. If not specified at the Component level, the loan currency is displayed
Current Accrual	This is the amount for which accrual entries are passed for the current month
Value Date	The Value Date of the contract under this product

11.4 **Adverse Status Report**

The Adverse status report gives details of loan contracts that have moved into a status other than active and liquidated.

The amounts outstanding for the various components are reported in this report.

You can invoke this report screen by typing 'CLRPSTAT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

You can specify the following preferences for the report:

Product Category

You can generate the Adverse Status report for a specific Product Category or for all categories. Select a Product Category from the option list provided.

Product Code

You can generate a product-wise report. Select the Product Code from the option list which contains all valid products under the category you have selected.

Account Ccy

Under specific Product(s), you can choose to generate reports in a specific currency(s).

Customer

You can generate this report for specific customer(s).

From Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Apart from the header the following information is provided for each contract:

Body of the Report

PRODUCT	This is the product for which the report is generated
STATUS	This is the current status of the component that is in a status other than Active or Liquidated. The status codes are defined for a product and applied to contracts involving the product
CUSTOMER	This is the CIF ID of the customer involved in the loan.
CUSTOMERNAME	The name of the customer
CONTRACTREFNO	This is the reference number of the loan being reported
COMPONENT	The component whose status details the report reflects
CCY	This is the component currency. If not specified at the Component level, the loan currency is displayed
MATURITY	This is the Maturity Date of the loan
MAXOVERDUE DAYS	If more than one account is overdue under the product, this field will reflect the number of overdue days of the account with the highest number of overdue days
OVERDUEAMT	This is the total amount that is overdue for the component as of the date of report generation

11.5 Adverse Status Summary Report

The Adverse Status Summary report summarizes the details of each contract.

Contents of the Report

Apart from the header the following information is provided for each contract:

Body of the Report

PRODUCT	This is the product for which the report is generated
STATUS	This is the current status of the contract for which details are being reported
COMPONENT	This is the component of the loan against which the payment due is

	being reported. If more than one component falls due on the same day they will be reported one by one
CURRENCY	This is the component currency. If not specified at the Component level, the loan currency is displayed
EARLIEST DUE DATE	For all the loans reported, this is the earliest date on which a repayment is due
LATEST DUE DATE	For all the loans reported, this is the latest date on which a repayment is due
CUMULATIVE OVERDUE AMT	This is the total amount that is overdue for the component(s) as of the date of report generation

11.6 Amortization Report

The Amortization Report gives the amortization details of loan contracts.

You can invoke this report screen by typing 'CLRPAMSC' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

The screenshot shows a standard Windows-style dialog box titled "Amortization Schedule". The main area contains a label "Amortization Schedule" and a text input field labeled "Loan Account". To the right of the text field is a small icon representing a dropdown menu. At the bottom right corner of the dialog, there are two buttons: "Ok" and "Exit".

You can specify the following preferences for the report:

Loan Account Number

Enter the Account Number for which amortization details should be displayed in the report. If you do not enter an account number here, the report will be generated for all accounts.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Apart from the header the following information is provided for each contract:

Body of the Report

REFERENCE NO	This is the reference number of the loan being reported
PRINCIPAL	The principal amount of the loan being reported
PRODUCT	This is the product for which the report is generated
CUSTOMER ID	This is the CIF ID of the customer involved in the loan
TENOR	The tenor of the loan being reported
YEAR	This is the year for which the amortization details are being displayed in the report
DUE DATE	The due date of an installment of the loan
INSTALLMENT	This is the installment amount of the loan
INTEREST DUE	The interest amount due
PRINCIPAL DUE	The principal amount due
TOTAL PRINCIPAL DUE	The total principal amount due on the loan

11.7 Contract Retrieval Report

The Contract Retrieval report gives you comprehensive information about a loan contract. Information about loan contracts that are active, liquidated and reversed can be retrieved through this report. You can generate the report for a variety of reasons.

You can invoke this report screen by typing 'CLRPRETR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

The screenshot shows a dialog box titled "Contract Retrieval Report". It contains several input fields for filtering the report. On the left, under "Account Information", there are text boxes for "Product Category", "Product Code", "Currency", and "Customer", each with a dropdown arrow icon. On the right, there are dropdown menus for "Maturity Type", "Account Status", and "Authorization Status". Below these, there are two sections for dates: "Value Date" and "Maturity Date", each with "From Date" and "To Date" text boxes and date picker icons. At the bottom right, there are "Ok" and "Exit" buttons.

You can specify the following preferences for the report:

Product Category

You can generate the Contract Retrieval Report for a specific Product Category or for all categories. Select a Product Category from the option list provided.

Product Code

You can generate a product-wise report. Select the Product Code from the option list which contains all valid products under the category you have selected.

Account Ccy

Under specific Product(s), you can choose to generate reports in a specific currency(s).

Customer

You can generate this report for specific customer(s).

From (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To (Value Date)

Enter the Value Date of the contracts. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.

Maturity Type

You can generate the report only for a particular Maturity Type. The Maturity type of a loan can be

- Fixed - this type of a loan has a fixed maturity date
- Call - If the maturity date is not fixed the loan can be liquidated any time

You can generate the report either for fixed maturity loans or call loans.

From (Maturity Date)

Specify the Maturity Date of the loan. The report will be generated for all contracts whose Maturity Date is equal to, or greater than the date you have specified here.

To (Maturity Date)

Specify the Maturity Date of the loan. The report will be generated for all contracts whose Maturity Date is equal to, or less than the date you have specified here.

Account Status

You can generate the report based on the status of the loan contract. The report can be generated for loans with the following statuses only:

- Active
- Liquidated
- Reversed
- To be initiated

All the loans with the specified status for the specific period will be reported.

Auth Status

You can generate the report for loan contracts either with an authorized or unauthorized status.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

Account No.	The account number for which the report is being generated
Account Status	This is the current status of the account
Outstanding Amount	This is the total outstanding amount that the customer has to repay. This amount also includes amounts belonging to earlier schedules that are yet to be paid. In case the customer has made pre-payments the outstanding amount can be less than the due amount
Product Code	This is the product for which the report is generated
Product Category	This is the product category to which the generated report belongs
User Ref No	This is the reference number of the loan being reported
Customer	This is the CIF ID of the customer involved in the loan
Customer Name	The name of the customer
Related Ref No	This is the alternate account number
Account Currency	The currency of the account
Financed Amount	The loan amount financed
Original Start Date	This is the original start date of the loan
Booking Date	The Booking Date of the contract
Value Date	The Value Date of the contract
Maturity Type	This is the Maturity Type of the contract
Maturity Date	The Maturity Date of the contract
Tenor	The tenor of the loan
User Defined Status	The status of the loan

Auth Status	The authorization status of the contract
Liquidation Mode	The liquidation mode of the contract
Rollover Mode	The rollover mode
Rollover Count	The rollover count
Component	The components of the loan are listed here
Ccy	This is the currency of the component
Rate Type	This is the rate type
Code Usage	This is the code usage
Effective Rate(%)	This is the effective rate
Special Amount	This is the special amount for the component

11.8 Event Report

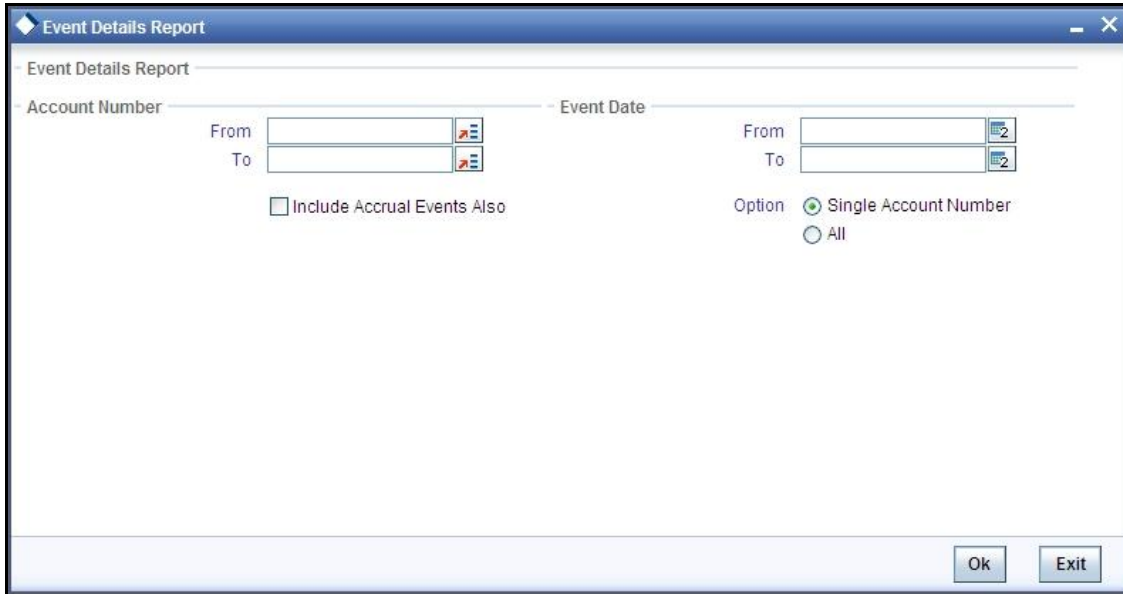
Contract events are events that have taken place during the tenor of a loan contract.

Contract Events report gives a list of all the events that have taken place during the tenor of a loan contract. The events are listed by their Value Date.

You can invoke this report screen by typing 'CLRPEVNT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.



The screenshot shows a dialog box titled "Event Details Report". It contains two main sections: "Account Number" and "Event Date".

- Account Number:** Includes "From" and "To" text boxes with calendar icons. Below them is a checkbox labeled "Include Accrual Events Also".
- Event Date:** Includes "From" and "To" text boxes with calendar icons. Below them is an "Option" section with two radio buttons: "Single Account Number" (which is selected) and "All".

At the bottom right of the dialog box are "Ok" and "Exit" buttons.

You can specify the following preferences for the report:

From (Account Number)

Select the starting account number. The system will display event details of all accounts from this account number.

To (Account Number)

Select the ending account number. The system will display event details of all accounts upto this account number.



If you do not enter an account number in the above two fields, the system will display the event details of all accounts.

From (Event Date)

Enter the date from which event details should be generated in the report for accounts.

To (Event Date)

Enter the date upto which event details should be generated in the report for accounts.



You have the option of not specifying the 'From' and 'To' dates, but if you specify the 'From Event Date', it will be mandatory for you to specify the 'To Event Date'.

Include Accrual Events also

Check this box to indicate accrual related events should be included.

Single Account No.

Select this option to indicate the report should be generated for a single account number or for a range.

All

Select this option to indicate the report should be generated for all accounts.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

ACCOUNT NO	The account number of the contract
CUSTOMER ID	This is the CIF ID of the customer involved in the loan
CUSTOMER NAME	The name of the customer
ACCOUNT CCY	The currency of the account
EVENT	This is the code of the event for which details are being reported
EVENT DATE	This indicates the date on which the event took place.
SEQ. NO.	The sequence number of the event
COMPONENT NAME	The component for which details are displayed in the report
ITEM NAME	The amount tag
ITEM VALUE	The value of the amount tag

11.9 Forward Contract Report

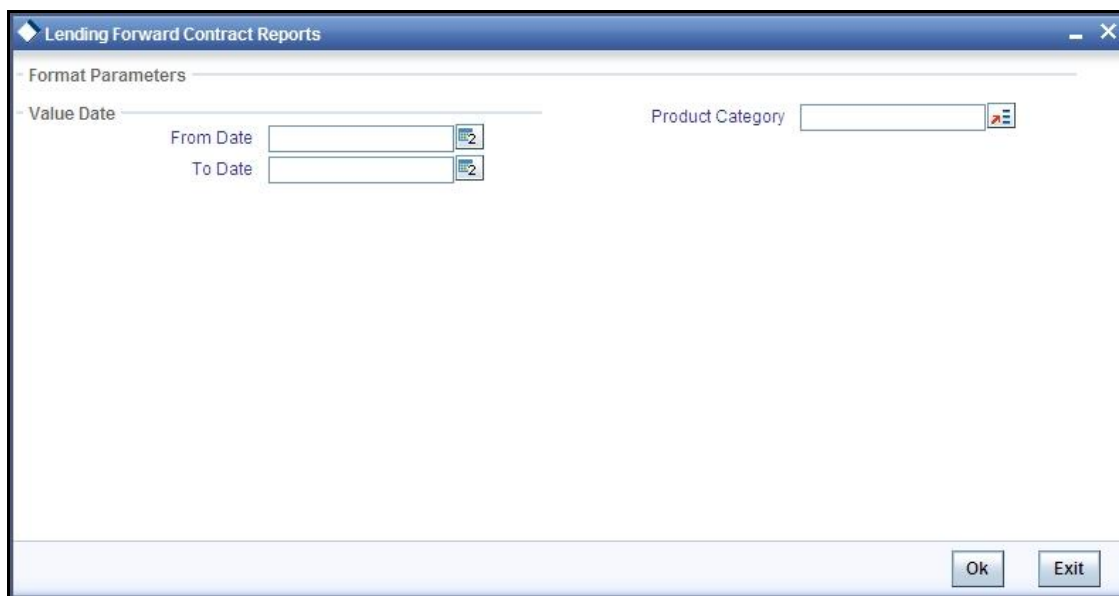
A forward contract is a loan with a future value date. The value date is the date on which the loan takes effect. The tenor of the loan contract will begin on this date. All accounting entries for the loan contract, all calculations for interest and all the other components based on the tenor will be made from this date onwards.

The forward contract report gives details of all the loan contracts with a future value date. Only contracts that take effect on a date later than or same as the specified date are included in the report.

You can invoke this report screen by typing 'CLRPFRWD' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.



You can specify the following preferences for the report:

From (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.



It is not mandatory for you to enter the 'From' and 'To' dates.

Product Category

You can generate the Forward Contract Report for a specific Product Category or for all categories. Select a Product Category from the option list provided.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

Product Category	This is the product category to which the generated report belongs
Account No	The account number of the contract for which the report is generated
Customer Id	This is the CIF ID of the customer involved in the loan
Customer Name	The name of the customer
Amount	This is the principal amount involved in the loan
EuroEqv	The Euro equivalent of the loan amount
Value Date	This is the date on which the loan takes effect
Mat.Type	This is the maturity type of the loan. It could be fixed or call.
Mat. Date	This is the date on which the loan matures. The maturity date is generated in the report only in case of fixed maturity loans.

CHARGE DETAILS	
Component	The component on which a charge is being applied
Amount	The charge amount
Euro Eqv.	The Euro equivalent of the charge
Waiver	Whether or not the charge has been waived
INTEREST DETAILS	
Component	The interest component
Amount	The interest amount

Euro Eqv	The Euro equivalent
Rate	The interest rate being applied
Effective Rate	The effective interest rate
Waiver	Whether the interest has been waived

11.10 Forward Amendments Details Changes Report

The Forward Amendments Details Changes Report gives a list of all the amendments made to contracts with a future value date.

You can invoke this report screen by typing 'CLRPFWCH' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually, the report will list the accounts whose Effective Date is between the dates that you specify in the screen Forward Amendments Report screen.

You can specify the following preferences for the report:

From (Effective Date)

Enter the date from which the report should include amendment details.

To (Effective Date)

Enter the date upto which the report should include amendment details.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

ACCOUNT NO	The account number of the contract for which the report is being generated
MATURITY DATE	The Maturity Date of the contract
VALUE DATE	The Value Date of the contract
LOAN AMOUNT	The principal loan amount of the contract
CURRENCY	This is the component currency. If not specified at the Component level, the loan currency is displayed
CUSTOMER ID	This is the CIF ID of the customer involved in the loan
CUSTOMER NAME	The name of the customer
TRANSACTION DATE	The date of the transaction
AMENDMENT DATE	The date of amendment
NEW MATURITY DATE	The Maturity Date after amendment
DIFFERENTIAL AMOUNT	This is the difference between the original financed amount and the new financed amount. If there is no change in the loan value, this field will be zero.
LATEST ESN	The latest Event Sequence Number
COMPONENT NAME	The component that has been amended
NEW RATE	The new rate that has been applied to the component
OLD RATE	The original rate
NEW RATE CODE	The new rate code
OLD RATE CODE	The original rate code
LATEST ESN	This is the latest Event Sequence Number

11.11 Interest Calculation Analysis Report

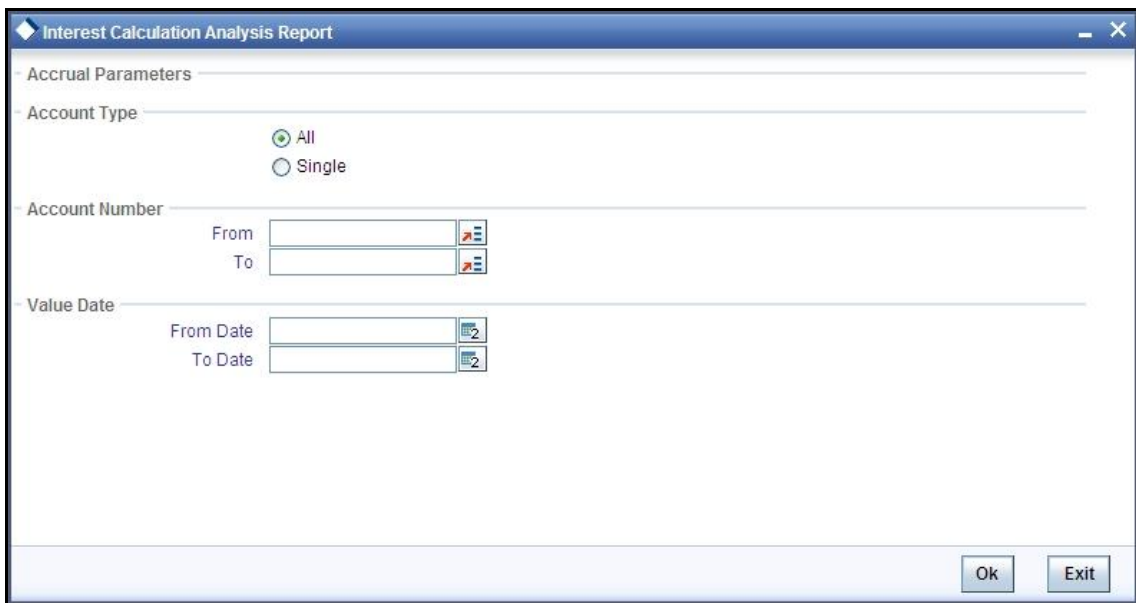
The Interest Calculation Analysis Report is generated for the accounts required between the given Value Date ranges.

The report will be generated for a specific combination of Branch, Account Number and Value Date range.

You can invoke this report screen by typing 'CLRPCALC' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.



The screenshot shows a dialog box titled "Interest Calculation Analysis Report". It contains several sections for user input:

- Accrual Parameters**: A section with a horizontal line below it.
- Account Type**: A section with two radio buttons: "All" (selected) and "Single".
- Account Number**: A section with two input fields labeled "From" and "To", each with a small icon to its right.
- Value Date**: A section with two input fields labeled "From Date" and "To Date", each with a small icon to its right.

At the bottom right of the dialog box, there are two buttons: "Ok" and "Exit".

You can specify the following preferences for the report:

Single/Range (Account Type)

Select this option to indicate you are either specifying a range of account numbers or a specific one whose report is to be generated.

All (Account Type)

Select this option to indicate the report should be generated for all accounts.

From (Account Number)

Select the starting account number. The system will display details of all accounts from this account number.

To (Account Number)

Select the ending account number. The system will display details of all accounts upto this account number.

From (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

AccountNo.	The account number of the contract for which the report is being generated
Value Date	The Value Date of the contract
Maturity Date	The Maturity Date of the loan contract
Customer Id	This is the CIF ID of the customer involved in the loan
Customer Name	The name of the customer
Component	The component for which details are being displayed in the report
Int. Method	The method if interest calculation
Currency	The account currency
Start Date and End Date	Reflects the various periods of change of interest rate
Basis Amount	The basis amount on which the interest is calculated
Rate	The interest rate applicable to a certain period
No. of Days	The number of days for which the rate is applicable

Interest Amount	The is the interest amount
------------------------	----------------------------

11.12 Linked Contracts Utilization Report

This report will include the details of the accounts, lines or collaterals that have been linked to an account, based on the selection criteria. Linkage Account details and the Amount Financed will be shown for each Account in this report.

You can invoke this report screen by typing 'CLRPLICU' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.


Selection Options

If you generate the report manually, the report will list the accounts that you have specified in the Linked Contract Utilization screen.

You can specify the following preferences for the report:

From (Account Number)

Select the starting account number. The system will display event details of all accounts from this account number.

 If you enter an account number in this field, you will have to enter an account number in the field 'To'.

To (Account Number)

Select the ending account number. The system will display event details of all accounts upto this account number.



If you do not enter an account number in the above two fields, the system will display the event details of all accounts.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

Account Number	The account number of the contract
Amount Financed	The loan amount
Currency	This is the component currency. If not specified at the Component level, the loan currency is displayed
Value Date	The Value Date of the contract
Maturity Date	The Maturity Date of the loan contract
Linkage Type	This is the linkage type
Linked Ref. No.	The reference number of the linkage type
Customer ID	This is the CIF ID of the customer involved in the loan
Customer Name	The name of the customer
Linkage Amount	The amount linked
Secured Portion	This is the secured portion of the loan

11.13 Maturity Report

The maturity report gives information about a contract that is:

- Maturing during the period that you specify
- Have schedules falling due during that period

You can invoke this report screen by typing 'CLRPMATR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

The screenshot shows a dialog box titled "Maturity Report". It contains the following fields and controls:

- Product Category: Text input field with a list icon.
- Product Code: Text input field with a list icon.
- Contract Currency: Text input field with a list icon.
- Customer: Text input field with a list icon.
- Maturity Type: Dropdown menu.
- Liquidation Mode: Dropdown menu.
- Account Value Date: Section header.
- From Date: Text input field with a calendar icon.
- To Date: Text input field with a calendar icon.
- Schedule Date: Section header.
- From Date: Text input field with a calendar icon.
- To Date: Text input field with a calendar icon.
- Ok: Button.
- Exit: Button.

You can specify the following preferences for the report:

Product Category

You can generate the Contract Retrieval Report for a specific Product Category or for all categories. Select a Product Category from the option list provided.

Product Code

You can generate a product-wise report. Select the Product Code from the option list which contains all valid products under the category you have selected.

Contract Ccy

Under specific Product(s), you can choose to generate reports in a specific currency(s).

Customer

You can generate this report for specific customer(s).

From Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.

Maturity Type

You can generate the report only for a particular Maturity Type. The Maturity type of a loan can be

- Fixed - this type of a loan has a fixed maturity date.
- Call - If the maturity date is not fixed the loan can be liquidated any time.

You can generate the report either for fixed maturity loan or call loans.

From Date (Schedule Date)

Specify the Starting Date of the schedule.

To Date (Schedule Date)

Specify the Ending Date of the schedule.

Liquidation Mode

Components of a loan can be liquidated automatically or manually. In auto liquidation a schedule will be automatically liquidated on the day it falls due. In manual liquidation a schedule amount has to be liquidated manually.

You can generate the report based on the liquidation mode that you have specified. The report can be generated only for loans with auto liquidation or you can generate the report for loans that have to be manually liquidated.

Non Maturity Schedules

Select the option 'YES' to indicate you want the report to include loans which have not matured. Select the option 'NO' to indicate it should include matured loans.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

CALL CONTRACTS	
CUSTOMER ID	This is the CIF ID of the customer involved in the loan
CUSTOMER NAME	The name of the customer
ACCOUNT NUMBER	The account number for which the report is being generated
Ccy	This is the component currency. If not specified at the Component level, the loan currency is displayed
FINANCED AMOUNT	The loan amount
OUTSTANDING AMOUNT	This is the total outstanding amount that the customer has to repay. This amount also includes amounts belonging to earlier schedules that are yet to be paid. In case the customer has made pre-payments the outstanding amount can be less than the due amount.
FIXED MATURITY CONTRACTS	
DUE DATE	This is the due date for the due amount
CUSTOMER ID	This is the CIF ID of the customer involved in the loan
CUSTOMER NAME	The name of the customer
ACCOUNT NUMBER	The account number for which the report is being generated
MATURITY DATE	Maturity Date of the loan
COMPONENT	Component which is due
CCY	Currency of the component
DUE AMOUNT	The amount which is due
O/S AMOUNT	This is the due amount minus the amount paid

11.14 Overdue Schedules Details

Repayment schedules can be defined for various components of a product like principal, interest, commission and fees. These schedules will apply to all the loans involving the product unless you redefine them at the time of processing the loan.

The Overdue Schedules report gives details of all repayment schedules of a loan that are overdue (i.e., are not paid even when they are beyond their scheduled repayment dates).

You can invoke this report screen by typing 'CLRPOSCH' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

The screenshot shows a dialog box titled "Overdue Schedules report". It contains the following fields and sections:

- Overdue Report** section:
 - Product Type: [Text Field]
 - Product Code: [Text Field]
 - Currency: [Text Field]
 - Customer: [Text Field]
- Value Date** section:
 - From Date: [Text Field]
 - To Date: [Text Field]
- Schedule Date** section:
 - From Date: [Text Field]
 - To Date: [Text Field]

At the bottom right, there are "Ok" and "Exit" buttons.

Product Category

You can generate the Overdue Schedules Report for a specific Product Category or for all categories. Select a Product Category from the option list provided.

Product Code

You can generate a product-wise report. Select the Product Code from the option list which contains all valid products under the category you have selected.

Contract Ccy

Under specific Product(s), you can choose to generate reports in a specific currency(s).

Customer

You can generate this report for specific customer(s).

From Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.

From Date (Schedule Date)

Specify the Starting Date of the schedule.

To Date (Schedule Date)

Specify the Ending Date of the schedule.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

DUE DATE	The due date of the component which is overdue
OVERDUE DAYS	The number of days by which the component is overdue
CUSTOMER	This is the CIF ID of the customer involved in the loan
CUSTOMER NAME	The name of the customer
ACCOUNT NUMBER	The account number of the customer for whom the report is being generated
STATUS	The status of the component which is overdue
COMPONENT	The component which is overdue
Ccy	This is the component currency. If not specified at the Component level, the loan currency is displayed
OVERDUE AMT	This is the component amount that is overdue
EURO EQUIVALENT	This is the euro equivalent of the overdue amount

11.15 Periodic Rate Revision

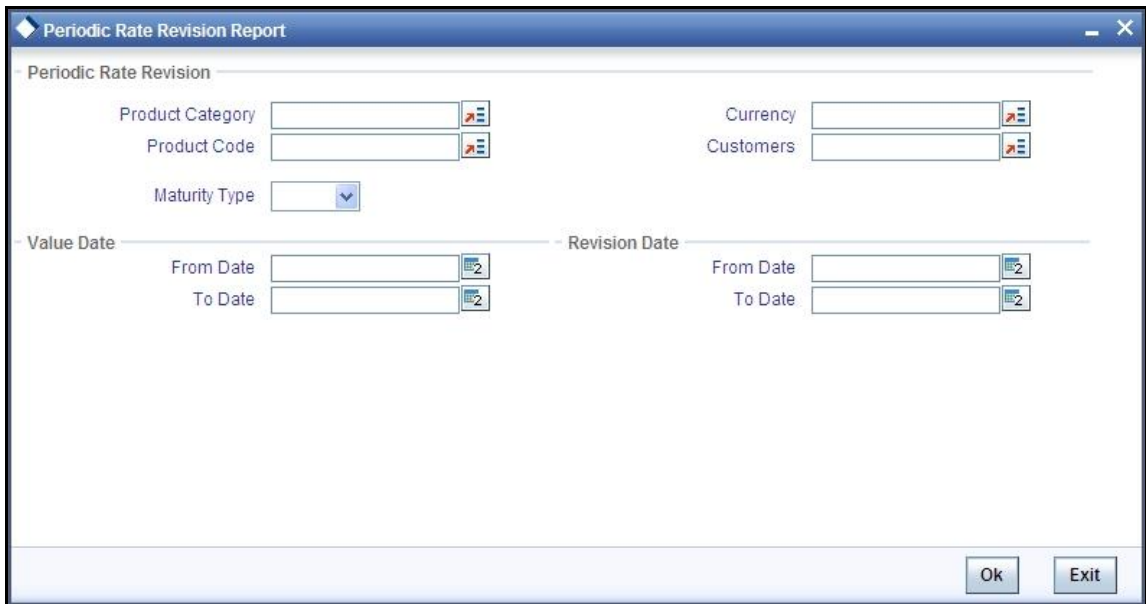
The Periodic Rate Revision Report lists the details of a customer, the rate revision date and the effective rate.

The report will be generated for a specific combination of Revision Date, Customer, Account Number and Rate Code.

You can invoke this report screen by typing 'CLRPREVN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.



The screenshot shows a dialog box titled "Periodic Rate Revision Report". It contains several input fields for configuring the report. Under the "Periodic Rate Revision" section, there are fields for "Product Category", "Product Code", "Maturity Type" (a dropdown menu), "Currency", and "Customers". Below this, there are two sections: "Value Date" and "Revision Date", each with "From Date" and "To Date" fields. At the bottom right, there are "Ok" and "Exit" buttons.

You can specify the following preferences for the report:

Product Category

You can generate a product-wise report. Select the Product Code from the option list which contains all valid products under the category you have selected.

Product Code

Select the Product Code from the option list which contains all valid products under the category you have selected.

Account Ccy

Under specific Product(s), you can choose to generate reports in a specific currency(s).

Customer

You can generate this report for specific customer(s).

From Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date greater than the date you enter here.

To Date (Value Date)

Enter the Value Date of the contract. The system will generate a report for the contracts that have a Value Date lesser than the date you enter here.

Maturity Type

You can generate the report only for a particular Maturity Type. The Maturity type of a loan can be

- Fixed - this type of a loan has a fixed maturity date.
- Call - If the maturity date is not fixed the loan can be liquidated any time.

You can generate the report either for fixed maturity loan or call loans.

From Date (Revision Date)

Enter the Revision Date from which the report has to be generated.

To Date (Revision Date)

Enter the Revision Date upto which the report has to be generated.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

REVN DATE	The rate revision date
RATE CODE	The rate code
CUSTOMER	This is the CIF ID of the customer involved in the loan
CUSTOMER NAME	The name of the customer
CONTRACTREFNO	This is the reference number of the loan being reported

CCY	This is the component currency. If not specified at the Component level, the loan currency is displayed
CONTRACTAMOUNT	The contract amount
COMPONENT	The component that has undergone a rate revision
COMPONENTCCY	The currency of the component
UDEID	The User Defined Element
EFFECTIVE RATE	The rate applicable

11.16 Loan Payoff Calculator Report (Account)

The Loan Payoff Calculator Report lists the payoff values for the loan account and component-wise charges and fees details for the loan.

You can invoke this report screen by typing 'CLRPAYAC' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

The screenshot shows a dialog box titled "Main" with a blue header bar. It contains two input fields: "Account Number" and "Payoff Date". Each field has a small icon to its right, likely for help or validation. At the bottom right of the dialog, there are two buttons: "Ok" and "Exit".

You can specify the following preferences for the report:

Account No

Select the loan account number for which you need to generate the report.

Payoff Date

Enter the Payoff date up to which the report has to be generated.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

Principal (Amount Due)	The principal amount that is due
Interest (Amount Due)	The interest amount that is due
Net Payoff	The net payoff amount for the loan
Prepayment Fees	The prepayment fee associated with the loan
Component-wise Fees/Charges Details	Component-wise assessed and unpaid and scheduled fee details
Component-wise Per Diem /Projected Interest Due	Component-wise per diem and projected interest due details

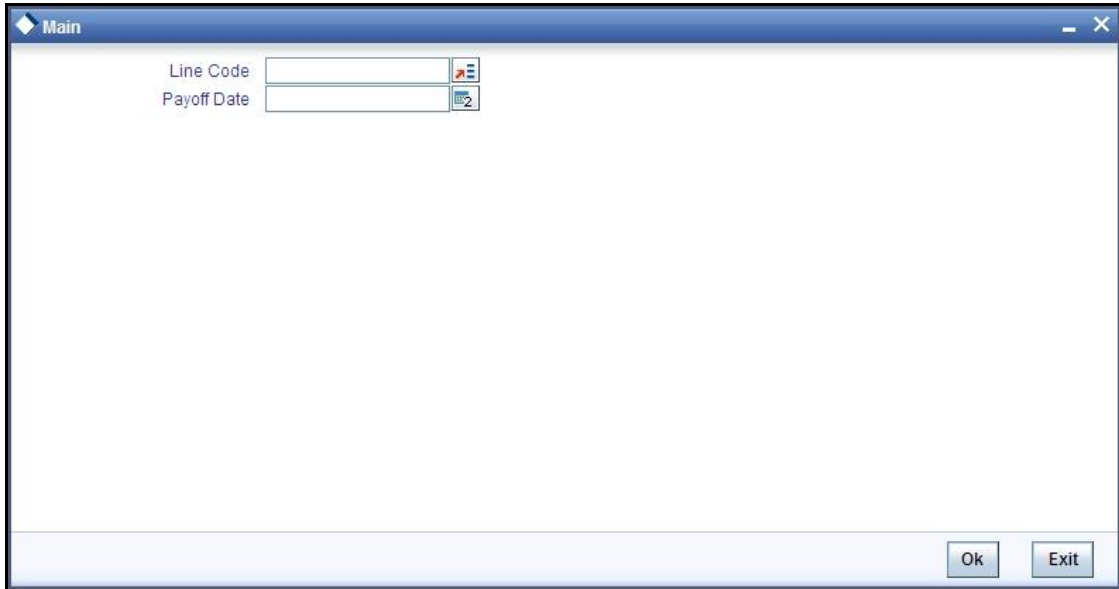
11.17 Loan Payoff Calculator Report (Line)

The Loan Payoff Calculator Report lists the payoff values for the line Id and component-wise charges and fees details for the loan.

You can invoke this report screen by typing 'CLRPAYLM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.



The screenshot shows a window titled "Main" with a blue header bar. Inside the window, there are two input fields: "Line Code" and "Payoff Date". Each field has a small icon to its right. At the bottom right of the window, there are two buttons labeled "Ok" and "Exit".

You can specify the following preferences for the report:

Line Code

Select the line Id for which you need to generate report.

Payoff Date

Enter the Payoff date up to which the report has to be generated.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

Body of the Report

Principal (Amount Due)	The principal amount that is due
Interest (Amount Due)	The interest amount that is due
Net Payoff	The net payoff amount for the loan
Prepayment Fees	The prepayment fee associated with the loan

Component-wise Fees/Charges Details	Component-wise accessed and unpaid and scheduled fee details
Component-wise Per Diem /Projected Interest Due	Component-wise per diem and projected interest due details

11.18 Loan History Report

The Loan History Report lists the event-wise history details for a loan account. It shows all event details for different operations on account.

You can invoke this report screen by typing 'CLRPLNHT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Selection Options

If you generate the report manually (from the reports Browser) you can specify preferences for the generation of the report. The contents of the report are determined by the preferences that you specify.

The screenshot shows a dialog box titled "Loan History". It has a "Launch Date" field and a "Loan Account" field with a dropdown arrow. At the bottom right, there are "Ok" and "Exit" buttons.

You can specify the following preferences for the report:

Loan Account Number

Select the loan account number for which you need to generate the history report.

Contents of the Report

The report options that you selected while generating this report are printed at the beginning of the report.

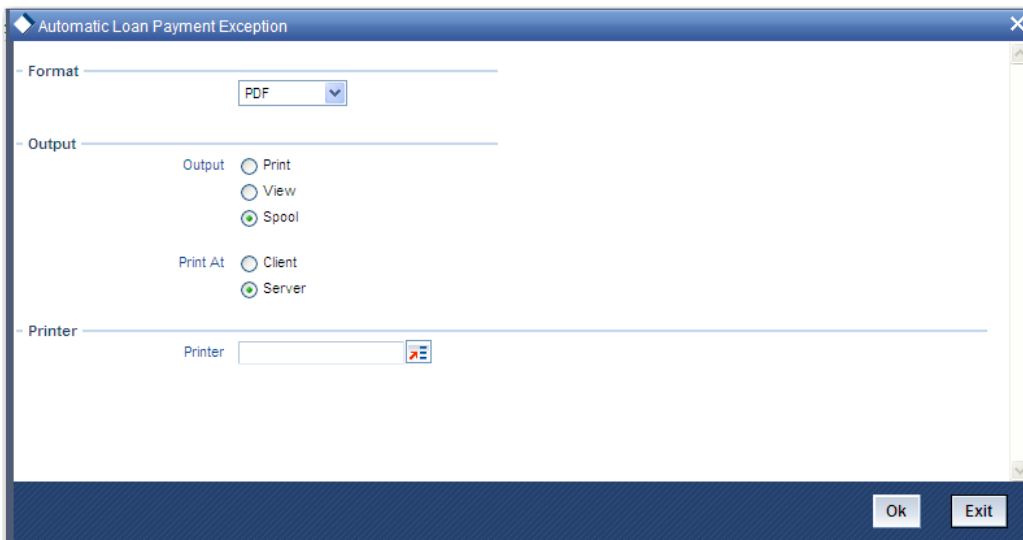
Body of the Report

Account Number	The loan account number
Account Currency	The currency of the loan account
Customer Id	The customer Id of the borrower
Customer Name	The name of the borrowing customer
Component Name	The name of the component associated with the loan
Item Value	The value associated with the component
Event	The name of the event during the loan cycle
Event Description	Description for the event
Event Date	The date on which the event occurred
Event Sequence No	The sequence number of the event

11.19 Automatic Loan Payment Exception

The Automatic Loan Payment Exception report lists the details of the loan payment exceptions.

You can invoke this report screen by typing 'CLRPALPE' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



The screenshot shows a window titled "Automatic Loan Payment Exception" with a blue header and a white body. The window contains the following configuration options:

- Format:** A dropdown menu set to "PDF".
- Output:** Three radio buttons: "Print", "View", and "Spool". "Spool" is selected.
- Print At:** Two radio buttons: "Client" and "Server". "Server" is selected.
- Printer:** A text field labeled "Printer" with a printer icon button to its right.

At the bottom right of the window, there are "Ok" and "Exit" buttons.

Contents of the Report

The details of the loan payment exceptions like the customer number, amount due, settlement account etc. are displayed in the report.

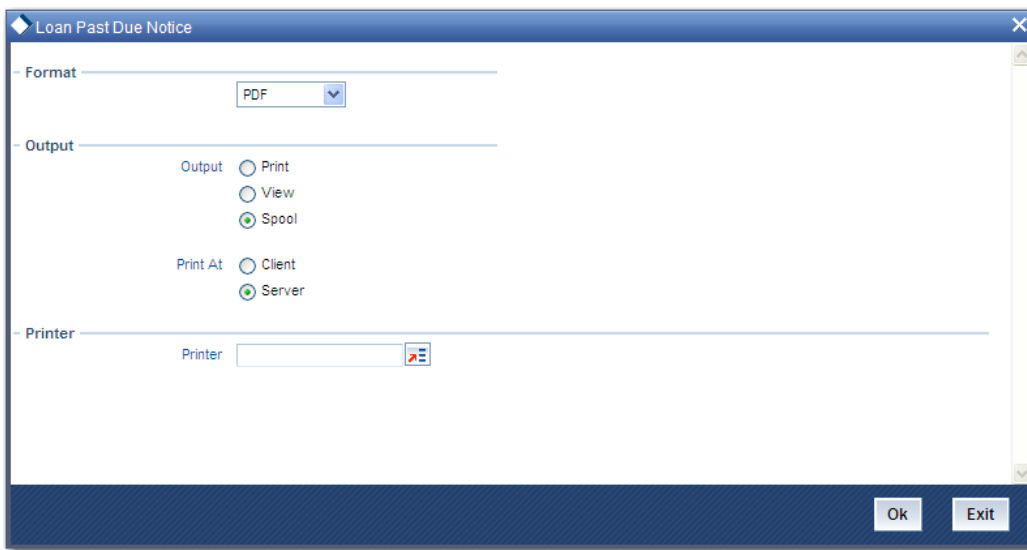
Body of the Report

Customer Number	The CIF ID of the customer involved in the loan
Customer Name	The name of the customer
Dept Code	The code of the department involved in the loan
Due Date	The date on which the loan payment was due
Amount Due	The repayment amount that is due
Settlement Account	The settlement account associated with the loan
Account Type	The type of the settlement account
Retries Auto Liq	The number of retries for auto liquidation
Reason	The reason for loan payment exception

11.20 Loan Past Due Notice

The Loan Past Due Notice report displays all notices for Past Due loans.

You can invoke this report screen by typing 'CLRPLNPD' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



The screenshot shows a window titled "Loan Past Due Notice" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains several sections for configuration:

- Format:** A dropdown menu currently set to "PDF".
- Output:** Three radio buttons: "Print", "View", and "Spool". "Spool" is selected.
- Print At:** Two radio buttons: "Client" and "Server". "Server" is selected.
- Printer:** A text field labeled "Printer" with a printer icon button to its right.

At the bottom right of the window, there are "Ok" and "Exit" buttons.

Contents of the Report

The details of all notices for 'Past Due' loans are displayed in the report.

Body of the Report

Principal Balance	The principal balance of the loan
Payment Due Date	The due date for payment
Amount of Payment	The amount that is due for payment
Notice Message	The message text that is sent to the customer
Customer Address	The address of the borrowing customer
Total Past Due	Total amount that is past due for payment

11.21 Past Due and Nonperforming Loan Month End Projections Report

The Past Due and Nonperforming Loan Month End Projections report lists the monthly projection details of past due and non-performing loans.

You can invoke this report screen by typing 'CLRPDLIN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Advice of Delinquent Notes

Format: PDF

Output: Print, View, Spool

Print At: Client, Server

Printer: [Printer Name] [Printer Icon]

Ok Exit

Contents of the Report

The details of the past due and non-performing loans are displayed in the report.

Body of the Report

Past Due Category	The past due category of the loan
Product Code	The name of the loan product
Account Number	The account number associated with the loan
Borrower	The borrower of the loan
Credit Risk Rating	The credit risk rating associated with the loan
Collateral Code	The collateral code associated with the loan
SVB Net Balance	The principal outstanding specific to SVB. For others it will be null
Interest Past Due	The interest amount that is past due
# of Days Currently Past Due	The number of days the loan is currently past due
# of Days Projected Past Due	The projected number of days the loan remains past due
Last Interest Payment Date	The date when the last interest payment was done
Maturity Date	The maturity date of the loan
Maturity Status	The maturity status of the loan
Department Name	The name of the department which initiated the loan
Niche Code	The niche code associated with the loan

11.22 Ledger Verification Report

The Ledger Verification Report lists the details of the ledger balances.

You can invoke this report screen by typing 'CLRPLGBL' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Contents of the Report

The details of the ledger balances like the GL account title, transaction amount, ledger balance etc. are displayed in this report.

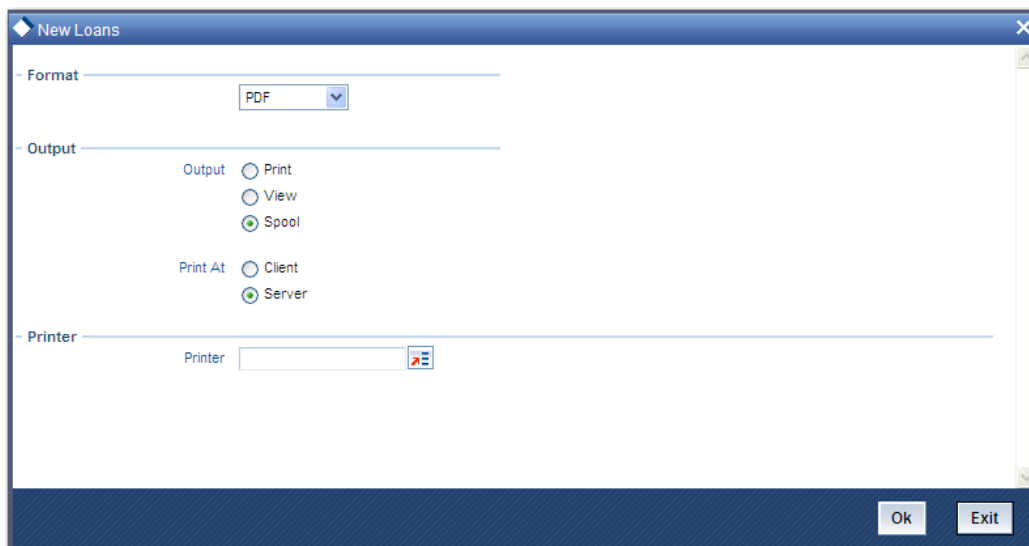
Body of the Report

Account	The customer account number
Branch	The branch where the account is located
Type	The product code
Description	The product description
Amount	The transaction amount
GL Account Title	The title of the GL account
Balance	The current GL balance
Difference	The difference in GL balance

11.23 New Loans Report

The New Loans Report lists the details of all the new loans that have been booked.

You can invoke this report screen by typing 'CLRPNWLN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



The screenshot shows a dialog box titled "New Loans" with a blue header and a white body. It contains three sections: "Format" with a dropdown menu set to "PDF"; "Output" with radio buttons for "Print", "View", and "Spool" (where "Spool" is selected); and "Printer" with radio buttons for "Client" and "Server" (where "Server" is selected). Below the "Printer" section is a text field labeled "Printer" with a printer icon to its right. At the bottom right of the dialog are "Ok" and "Exit" buttons.

Contents of the Report

The details of the new loans are displayed in this report.

Body of the Report

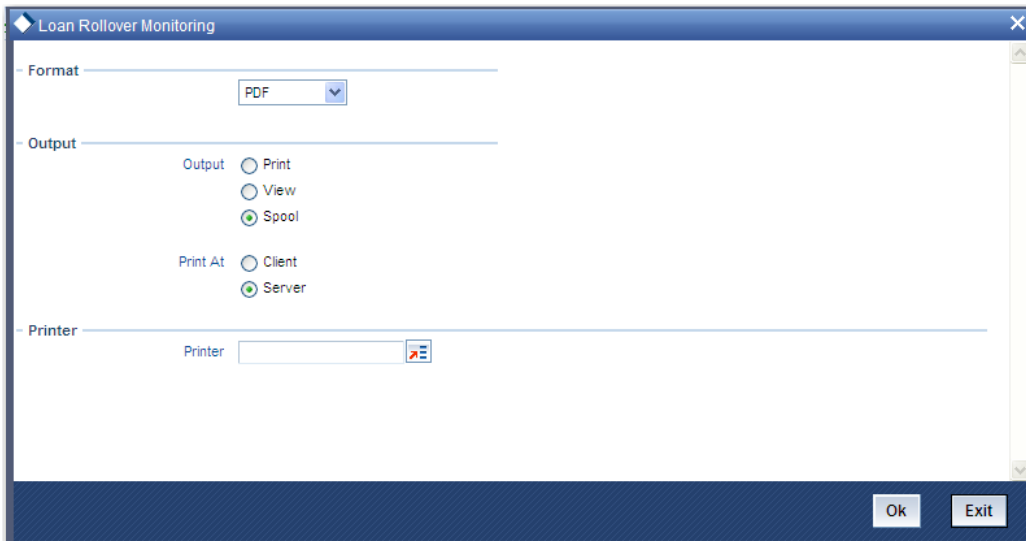
Account No	The customer account number
Account Status	The branch where the account is located
Product Code	The code of the retail lending product
Product Category	The product category of the retail lending product
Customer	The identification of the borrowing customer
Customer Name	The name of the borrowing customer
Account Currency	The currency associated with the loan account
Financed Amount	The total amount that has been financed
Original Start Date	The original start date of the loan
Booking Date	The booking date of the loan

Value Date	The value date of the loan
Maturity Type	The type of maturity
Maturity Date	The date of loan maturity
Tenor	The tenor of the loan
Auth Status	The authorization status of the loan
User Defined Status	The user defined status of the loan account
Liquidation Mode	The mode of liquidating the loan
Rollover Mode	The rollover mode of the loan

11.24 Loan Rollover Monitoring Report

The Loan Rollover Monitoring Report lists the rollover details of all the loans.

You can invoke this report screen by typing 'CLRPRVLVR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



Contents of the Report

The details of the loans including the type of rollover and date are displayed in this report.

Body of the Report

Branch	The customer account number
Customer	The branch where the account is located

Loan ID	The identification of the loan
Ccy	The currency associated with the loan
Principal Amt	The principal amount associated with the loan
Interest at Maturity	The interest amount at loan maturity
Total Due	Total amount that is due
Product	The product code of the retail lending product
Prod Desc	The product description
Rollover Type	The type of rollover, whether manual or automatic
Value Date	The value date of the loan
Maturity Date	The maturity date of the loan

11.25 Loan Register/Trial Balance Report

The Loan Register/Trial Balance Report lists the loan register / trial balance details.

You can invoke this report screen by typing 'CLRPTRBL' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a configuration window for the 'Loan Register/Trial Balance' report. The window title is 'Loan Register/Trial Balance'. It features three main sections for configuration:

- Format:** A dropdown menu currently set to 'PDF'.
- Output:** Radio buttons for 'Print', 'View', and 'Spool'. 'Spool' is selected.
- Print At:** Radio buttons for 'Client' and 'Server'. 'Server' is selected.
- Printer:** A text field for the printer name and a printer icon button.

At the bottom right of the window are 'Ok' and 'Exit' buttons.

Contents of the Report

The loan register/trial balance details are displayed in this report.

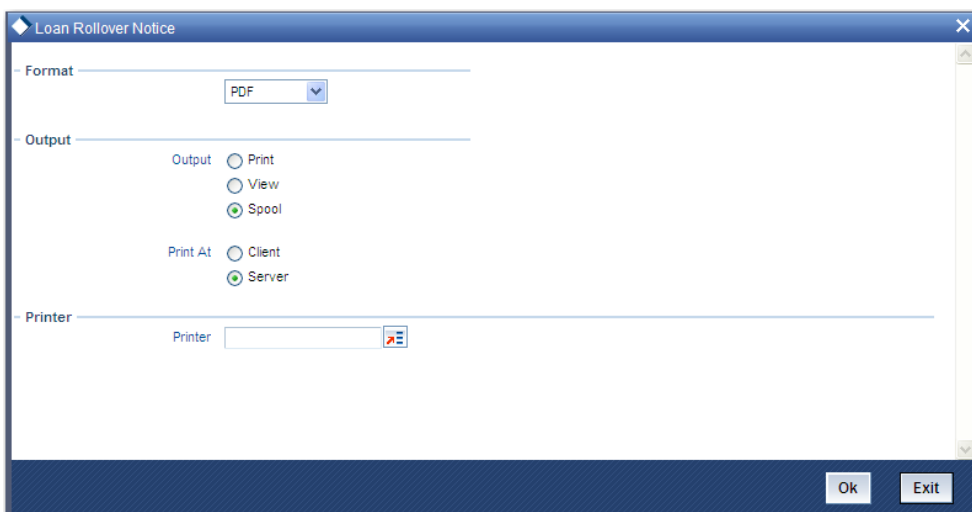
Body of the Report

Note Number	The unique identification number of the note
Short Name	The short name of the customer
Codes	The product code and the type of the product
Interest Rate	The interest rate associated with the loan
Face Amount	The face amount associated with the loan
Net Payoff	The net payoff amount for the loan
P/O Diem	The amount financed
Unadvanced Principal	The un-advanced principal amount
Payment Amount	Total amount (principal + interest) that has been repaid
Interest Balance	The balance interest payment amount
Interest Payment	The interest amount that has been repaid
L/F Due	The total outstanding penalty
Principal Balance	The balance principal amount associated with the loan
Principal Payment	The principal amount that has been repaid
ESC Balance	This is specific to SVB. Will not be populated for others
Note/Remarks	Any notes or remarks associated with the loan
Payment Due Date	The due date for loan repayment
Maturity Date	The maturity date of the loan

11.26 Loan Rollover Notice

The Loan Past Due Notice report displays the notice details that are sent to customers in case of loan rollovers.

You can invoke this report screen by typing 'CLRPRLNT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



The screenshot shows a window titled "Loan Rollover Notice" with the following configuration options:

- Format:** A dropdown menu set to "PDF".
- Output:** Radio buttons for "Print", "View", and "Spool". "Spool" is selected.
- Print At:** Radio buttons for "Client" and "Server". "Server" is selected.
- Printer:** A text field labeled "Printer" with a printer icon button to its right.

At the bottom right of the window are "Ok" and "Exit" buttons.

Contents of the Report

The details of all notices related to loan rollovers are displayed in the report.

Body of the Report

Date of Notice	The date on which the notice was generated
Facility	The facility details of the loan
Loan Reference	The loan reference number
Principal Amount	The principal amount associated with the loan
Interest at Maturity	The interest amount due at maturity
Maturity Date	The date of maturity of the loan
Notice Message	The message text that is sent to the customer

12. Glossary

12.1 Important Terms

Product

An identifier, in FLEXCUBE, for any type of service that a bank offers to its customers. A set of attributes and preferences are maintained for the product, which will apply to the processing of any contracts, transactions or deals involving the product (service).

Product Group

A group under which a product is logically classified, under which logically similar products are placed together.

Product Remarks

Descriptive text about a product.

Product Slogan

Text or phrase that could be used as a declaration or an announcement of the product, to customers.

Accounting Head

The specific GL created in any module of the FLEXCUBE system into which the accounting entry would be posted.

Accounting Role

The general ledgers and sub-ledgers maintained as a chart of accounts in FLEXCUBE may be classified logically under different categories, each of which is called an accounting role.

Amount Item

The amount entry that is passed into a general ledger / sub ledger in the chart of accounts for each transaction.

Netting

Summing of two or more accounting entries passed to an account for the same event, so as to arrive at a net figure for posting.

Trigger

The occurrence or process that initiates the generation of an advice during the processing of a contract in FLEXCUBE.

Transaction Code

An identifier for each accounting entry that is used to track the transaction.

Rekey Options

The fields that are to be keyed in by an authorizer of a transaction, for the purpose of cross-checking, when the transaction is being authorized. Complete details of the transaction will only be displayed when the authorizer 'rekeys' the values for these fields.

Payment Method

The manner in which the main interest payable on a loan contract is reckoned. The methods could be Bearing, Discounted or True Discounted.

Schedule Type

The kind of repayment schedule defined for a loan contract. It could be amortized, normal or capitalized.

Schedule Frequency

The frequency at which the repayment of the loan amount will be amortized in equated installments over the tenor of the contract.

Accrual Frequency

The frequency at which components of a loan contract such as interest, charges or commissions must be accrued over the tenor of the contract.

Tenor

The default period during which a contract is effective. The default Maturity Date of a contract is calculated from tenor.

Rate Variance

The difference between the default value and the changed value of an exchange rate employed for currency conversion. Permissible limit can be set for the variance.

Amortization Type

The method according to which amortization is applied on a loan contract for which the type of schedule defined is amortization. It could be any of two types, Reducing Balance or Rule 78.

Cascading Schedules

A schedule falling due on a holiday can be moved backward or forward, based on the Mover Forward or Move Backward preference. By cascading, the subsequent schedules are also moved forward or backward accordingly. If schedules are not cascaded the frequency will be reckoned from the schedule due date of the previous month before moving forward or backward.

Maturity Type

The manner in which the maturity of a loan contract is reckoned. There are three possible types – Fixed, Call or Notice Days.

Commitment Type

An attribute of a commitment contract, which determines whether the amount of the contract is reinstated when a loan linked to the contract, is paid. If the commitment is revolving, the contract amount is reinstated, and if it is non-revolving, the contract amount is not reinstated.

Verify Funds

The check for availability of funds in a customer account before it is debited for the purpose of liquidation of any of the components of a loan contract. If not specified for a contract, this check is not performed in the system.

Cluster ID

A unique identifier for a cluster defined for a deposit product. A cluster deposit is a deposit contract involving a deposit product for which a cluster has been defined.

Reducing Balance

A method of calculation of interest component for amortized type of repayment. The interest is calculated on the outstanding principal for the current period.

Rule 78

A method of calculation of interest component for amortized type of repayment. The interest is calculated on the outstanding principal based on remaining tenor divided by total tenor.

Holiday Currency

The currency of a loan contract, for which the holiday table of the currency must be checked, before the payment schedule is drawn up. By default, the currency that is checked is the loan currency. If any other currency is specified, then both are checked.

Liquidation Type

For a loan, the liquidation type indicates whether the loan is liquidated manually or automatically on maturity.

Mode of Liquidation

The manner in which the payable components of a loan contract are to be settled in FLEXCUBE. The modes available are automatic and manual.

Interest Rate Revision Schedule

The schedule defined for the refreshing of interest rates from the Floating Rates table, for floating rates applicable on a loan contract.

Interest Rate Revision Frequency

The frequency specified for the rate revision schedule defined for floating rates applicable on a loan contract.

Pre-Payment

Repayment of principal (whole or part) of a loan contract before the repayment schedule falls due. Prepayment involves a re-computation of subsequent interest schedule amounts.

Main Interest

When more than one interest component is applicable on a contract involving a product, one of the components may be designated as the main interest component for the contract. It helps identify and differentiate the different interest components applicable for the component.

Interest Application Method

The basis upon which interest on a loan contract is applied. Interest on a contract could be applied as an amount, or a fixed rate, or floating rate.

Interest Collection Method

The manner in which the main interest payable on a loan contract is collected or liquidated. The methods could be Bearing, Discounted or True Discounted.

Repayment Type

The kind of repayment schedule defined for a loan contract. It could be amortized, normal or capitalized.

Mode of Rollover

The manner in which a loan contract is renewed or rolled over. IT could be automatic or manual.

Residual Amount

A limit placed on the residual payables on any pending component that has not been liquidated, of a loan for which the principal is to be liquidated. A check is made that the residual pending payables for any component other than the principal, must be individually less than or equal to the residual amount specified. The loan is liquidated only if this check is successful.

Billing Advice

The reminder sent to the customer of a loan contract a stipulated number of days before the repayment date of a schedule, intimating that a payment is due.

Delinquency Notice

The intimation to the customer of a loan contract that a payment in the repayment schedule is overdue.

Automatic Renewal

Rolling over a loan automatically, on maturity. The old loan is automatically liquidated and a new one initiated.

Cluster Deposit

A cluster deposit involves the input of a deposit as a multiple of specific units of a certain currency. All operations concerning the principal, like drawing up payment schedules for the principal, change in principal, etc., must be in multiples of the cluster size specified for the deposit.

13. Screen Glossary

13.1 Function ID List

The following table lists the function id and the function description of the screens covered as part of this User Manual.

Function ID	Function Description
CFDFLTRT	LD MM Floating Rate Input
CLDACCNT	Account Details
CLDACCVM	Value Dated Amendments
CLDACHST	Account History
CLDADCHG	Ad-hoc Charges
CLDADCMT	Ad-hoc Charge Type
CLDBATCH	CL Batch
CLDBPMNT	Lending Bank Parameters
CLDBLKPT	Bulk Payment
CLDBPPRF	Bulk Payment Preference
CLDBRNPT	Lending Branch Parameters
CLDCHKMT	Check List Maintenance
CLDCMPCL	Product Component Class
CLDCMTMT	Commitment Account Details
CLDCMTVM	Commitment Amendments
CLDCROLL	Consolidated Rollover
CLDECDST	Economic Destination
CLDEMINT	Equated Monthly Installment
CLDEXNTT	Limit Utilization by External Entity
CLDHOLMT	Holiday Period Maintenance
CLDIDPMT	Indirect Payment

Function ID	Function Description
CLDIMROL	Inactive Rollover
CLDINADT	Inactive Accounts
CLDINSQR	Installment Query
CLDLSTMT	Loan Statement
CLDMNDSB	Manual Disbursement Details
CLDMRKSC	Special Condition Marking
CLDMROLL	Manual Rollover
CLDMSDSB	Agreement Massive Disbursement Input
CLDMSPMT	Massive Payment
CLDMSTCH	Manual Status Change
CLDNCFCM	National Collateral Fund Commission Maintenance
CLDNOCON	Manual Notary Confirmation
CLDNOVDT	Reassignment
CLDPOLMT	Policy Maintenance
CLDPRCLS	Product Class Maintenance
CLDPRCMT	Product Category
CLDPRMNT	Product
CLDPROMT	Promotions Details
CLDPWOFF	Partial Write Off
CLDPYMNT	CL Payments
CLDRENOG	Renegotiation
CLDSCCOD	Special Condition Maintenance
CLDSCOMT	Commitment Account Simulation
CLDSDEMT	System Data Elements
CLDSIMDT	Account Simulation
CLDSIMPT	Payment Simulation

Function ID	Function Description
CLDSIMVD	Value Dated Amendments Simulation
CLDSROLL	Split rollover
CLDSTDPL	Standard Policies
CLDTPROC	Automatic Process Definition
CLDTRMSC	Special Condition Termination
CLDUDCMT	User Defined Element Cascade
CLDUDRMT	User Defined Element Rule
CLDUDVMT	User Defined Element Values Maintenance
CLDUIERM	Unemployment Insurance Recalculation Maintenance
CLRPACCR	Accrual Control List
CLRPALPE	Automatic Loan Payment Exception
CLRPAMSC	Amortization Schedule
CLRPAYAC	Account Payoff Calculator
CLRPAYLM	Line Payoff Calculator
CLRPCALC	Interest Calculation Analysis Report
CLRPDLIN	Advice of Delinquent Notes
CLRPEVNT	Event Details Report
CLRPFRWD	Lending Forward Contract Reports
CLRPFWCH	Forward Amendments Report
CLRPLGBL	Ledger Balance Verification
CLRPLICU	Linked Contract
CLRPLNHT	Loan History
CLRPLNPD	Loan Past Due Notice
CLRPMATR	Maturity Report
CLRPNWLN	New Loans

Function ID	Function Description
CLRPOSCH	Overdue Schedules report
CLRPRETR	Contract Retrieval Report
CLRPREVN	Periodic Rate Revision Report
CLRPRLNT	Loan Rollover Notice
CLRPRLVR	Loan Rollover Monitoring
CLRPSTAT	Adverse Status Report
CLRPTRBL	Loan Register/Trial Balance
CLSACCVN	Value Dated Amendment Summary
CLSBLKPT	Bulk Payment Summary
CLSBPPRF	Bulk Payment Preference Summary
CLSCMTMT	Commitment Summary
CLSECDST	Economic Destination Summary
CLSENTTY	Commitment/Limits Summary
CLSIDPMT	Indirect Payment Summary
CLSMNDSB	Manual Disbursement
CLSMDSB	Massive Disbursement
CLSNCFM	National Collateral Fund Commission Summary
CLSPRCLS	Product Class Summary
CLSPYMNT	Summary
CLSTXSRY	Tax Summary
CLSUIERM	Unemployment Insurance Recalculation Summary
UDDCLEVT	CL User Defined Events Triggering



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