

FLEXCUBE Enterprise Limits and Collateral Management
Oracle FLEXCUBE Universal Banking
Release 11.3.1.0.0LA
[January] [2012]
Oracle Part Number E51536-01



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1. About this Manual

1.1 Introduction

This manual is designed to help you to quickly get acquainted with the Oracle FLEXCUBE Enterprise Limits and Collateral Management (hereafter referred to as Oracle FLEXCUBE ELCM) system. It provides an overview and takes you through the various steps involved setting up and maintaining the Oracle FLEXCUBE ELCM system.

You can further obtain information specific to a particular field by placing the cursor on the relevant field and striking <F1> 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 funds
Back office managers/officers	Authorization functions
Product Managers	Product definition and authorization
End of day operators	Processing during end of day/ beginning of day

1.3 Organization

This manual is organized into the following chapters:

Chapter 1	About This Manual
Chapter 2	Limits & Collaterals
Chapter 3	End Of Day Batch Processes
Chapter 4	Process Flows
Chapter 5	Queries
Chapter 6	Utilizations Transactions
Chapter 7	Value Dated Facility
Chapter 8	Revaluation
Chapter 9	Gateway Processes & Interfaces



1.4 Acronyms and Abbreviations






















You may find the following acronyms/abbreviations in this manual.

UI	User Interface
ELCM	Enterprise Limits and Collateral Management
FCUBS	Oracle FLEXCUBE Universal Banking Solution
GW	Gateway
HTTP	Hyper Text Transfer Protocol
XML	eXtensible Mark-up Language
XSD	XML Schema Definition
XSLT	eXtensible Stylesheet Language Transformations
BPEL	Business Process Execution Language
SMS	Security Services
ID	Identification Number
PK	Primary Key
RDBMS	Relational Data Base Management System
VD	Value Date
Mark EOTI	Mark End of Transaction Input
Mark TI	Mark Transaction Input
TD	Term Deposits
CIF	Customer Information File

1.5 Glossary of Icons

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

Icons	Function
	New
	Copy

Icons	Function
	Save
	Delete
	Unlock
	Print
	Close
	Re-open
	Reverse
	Template
	Roll-over
	Hold
	Authorize
	Liquidate
	Exit
	Sign-off
	Help
	Add row
	Delete row
	Option List
	Confirm
	Enter Query
	Execute Query

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

2. Limits & Collaterals

2.1 Introduction

The functions and actions provided by the Oracle FLEXCUBE Enterprise Limits and Collateral Management are explained below. All functions explained below, come under Limits & Collaterals in the Menu Browser.

2.2 Maintaining Credit Score

Before creating a Liability in the system, your Bank will assess the credit score of individual liabilities. You can create and maintain Credit Score names in the 'Score Maintenance' screen. These credit scores can later be linked to liability maintenance for assessing the liability score.

Credit Score Maintenance is a bank level maintenance and will be accessible in all Branches. You can invoke the 'Score Maintenance' screen by typing 'GEDCRSCR' 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 "Credit Score Maintenance". Inside the window, there are two text input fields: "Credit Score Name *" and "Credit Score Description". Below the input fields, there is a "Fields" section with the following labels: "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.

Enter the following details:

Score Name

Specify a unique credit score name here.

Score Description

Give a brief description of the score.

2.3 Maintaining Agency Details for Credit Rating

You can maintain details regarding credit rating agencies in the 'Credit Rating Maintenance' screen. Using this maintenance you can record the credit rating codes published by each credit rating agency. This can later be linked to liability maintenance for specifying customer rating published by an agency.

You can invoke the 'Credit Rating Maintenance' screen by typing 'GEDCREDIT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Credit Rating	Credit Rating Description
<input type="text"/>	<input type="text"/>

Fields

Input By: _____ Authorized By: _____ Modification Number: _____
Date Time: _____ Date Time: _____

Authorized Open

Enter the following details:

Agency Name

Specify the name of the credit rating agency here.

Agency Description

Give a brief description of the credit rating agency here.

Credit Rating

Specify the unique Credit Rating code/ID.

Credit Rating

Give a brief description of the Credit Rating code/ID.

2.4 Maintaining User Defined Status

You may wish to specify certain statuses for liabilities such as Normal, Partially Defaulting, Defaulting etc. Such statuses can be maintained first in the 'User Define Status Maintenance' screen. You can name and describe statuses here.

You can invoke the 'User Define Status Maintenance' screen by typing 'GEDUDFNS' 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 "User Defined Status Maintenance". Inside the window, there are two input fields: "Status" and "Description". Below the input fields, there is a "Fields" section with the following labels: "Input By", "Authorized By", "Modification", "Authorized", "Date Time", "Date Time", "Number", "Open", and an "Exit" button.

Enter the following details:

User Defined Status

Provide a name/ID for the status here.

Description

Give a brief description of the status.

2.5 Maintaining Customer to Liability Link

You can link customers to liabilities using the 'Customer to Liability Link Maintenance' screen.

Multiple customers can be linked to a liability. But a customer cannot be linked to multiple liabilities. You can invoke the 'Customer to liability Maintenance' screen by typing 'GEDCULIK' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Customer No

Specify customer's number to whom the liability has to be linked.

Liability No and Liability Name

Specify the number and name of the Liability to be linked to the customer.

Customer Exposure - Exposure Type and Exposure Name

Here you can specify different Exposure Types for the customer. This allows you to track the exposure of a customer. Multiple exposure names can be linked (e.g. IT for Sector exposure, INDIA for country exposure) to track exposures.

- Exposure Type - Specify the exposure type which needs to be linked for the customer.
- Exposure Name - Specify a particular exposure name under the exposure type which is maintained under track exposures.



Note the following:

- The Customer to Liability Link Maintenance is mandatory, when limits tracking are required under any of the Oracle FLEXCUBE modules.
- The Customer to Liability Link Maintenance is mandatory, when account for the customer is created using account class, for which limit check flag is set as Y at preference sub-system screen.

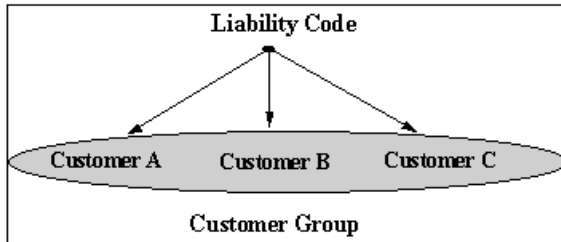
2.6 Liability Maintenance

Every customer of your bank who enjoys credit facilities should be assigned or linked to a Liability Code category. Several customers can be linked to the same Liability Code. Liability linkage can be in two ways.

- Single Liability linked to multiple customers (i.e. a Customer Group)
- Single Liability linked to only one customer

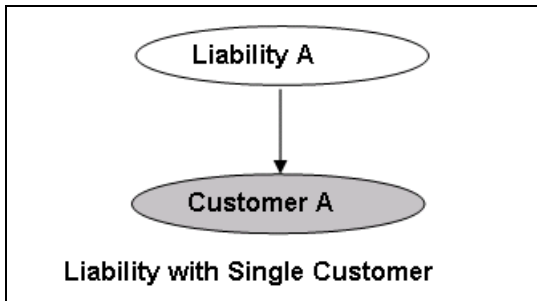
Single Liability Linked To Multiple Customers

Here multiple customers are linked to same the Liability Code and all restrictions/facilities maintained at liability level are shared to all the customers.



Single Liability Linked To Only One Customer

Here a liability is linked to only one customer and all restrictions/facilities maintained at liability level are applicable to that customer alone.



You can create or modify the Liabilities using the 'Liability Maintenance' screen.

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

Liability Number

Specify the Liability Number. If the Liability Number is customer group then all customers under this group should have same Liability Number.

Liability Name

Specify the Liability Name here. A maximum of 35 characters are allowed in this field.

Main Liability Number

Specify the main liability number. The adjoining option list displays a list of liability numbers maintained in the system. Choose the appropriate one.

The child liability's overall limit amount should not exceed the parent liability's overall limit amount.

During Utilization transaction, the utilization is tracked for both the specified Liability and also the parent Liability to which it is linked.

Liability Branch

Specify the branch in which liability is associated.

Liability Currency

Specify the currency with which the liability is associated. This cannot be changed post authorization.

Utilization Amount

This field displays the utilized amount for that liability Id at any point in time. You cannot edit this display.

Revision Date

Specify the date on which your bank would wish to revise the limit for the liability. The limit check will continue irrespective of the date maintained here. The revision date must be greater than the start date and can also be left blank.

Credit Rating

The primary credit rating selected in the credit rating sub screen is displayed here.

Overall Score

Specify the overall credit score for the liability. The given credit score is supplemented by the multiple credit score details (if any) entered in the Credit Score sub screen.

Overall Limit

Specify the overall limit amount for that liability. Value entered in the field will be in the currency stated above. If liability is of customer group then overall limits stated will be common to all the customers.

Liability Category

Select the Liability Category from the list available here.

User Defined Status

Specify status of the liability (e.g. NORM for normal, BLOCKED etc).

Unadvised

Select this check box if the Liability is unadvised.

For any transaction involving an unadvised liability, you will be notified so.

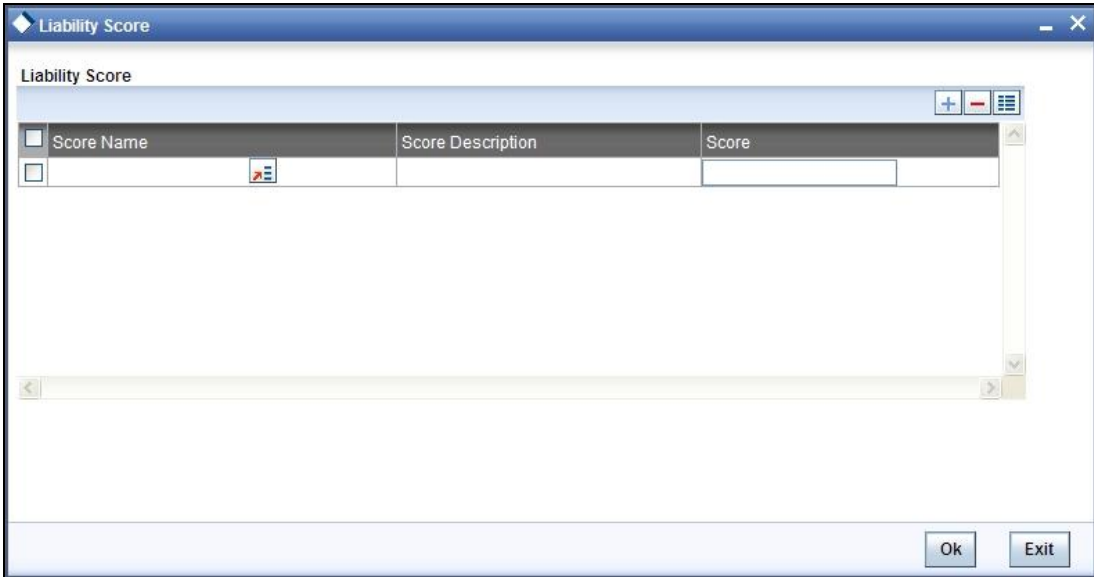
Netting Required

Select this check box to indicate that all facility amounts linked to the liability should be consolidated.

You can set the available amount under a Facility to include the Netting Amount too. For more details on this feature, refer the section 'Including Netting Amount in Facility's Available Amount' in this document.

2.6.1 Specifying Liability Scores

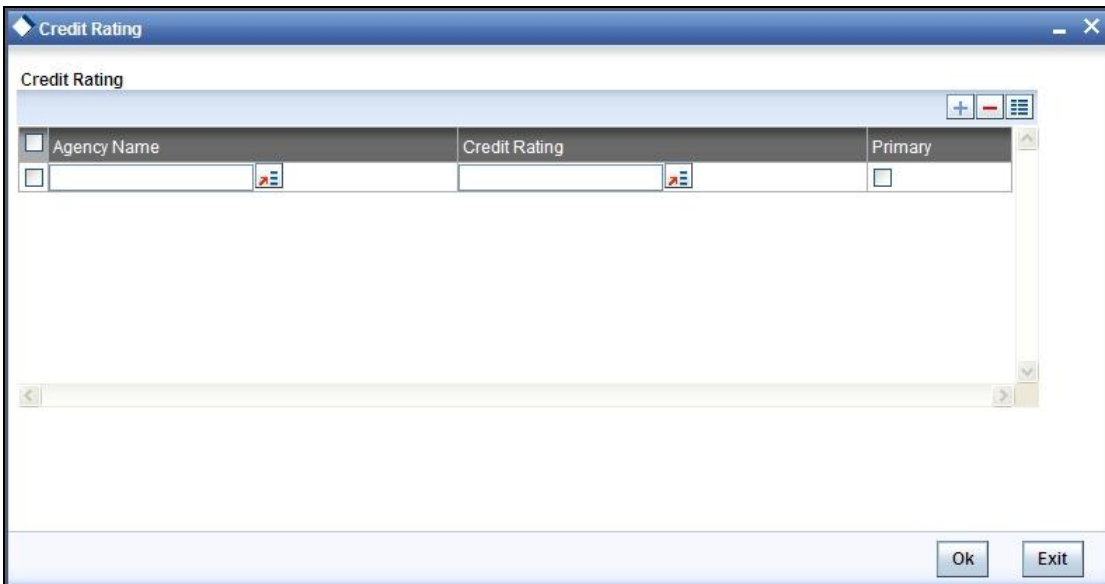
When a Liability is created, Bank will assess the credit score for the liability. You can link score parameters in the Liability Score screen. Here you can also assign a score value to each. You can maintain multiple score parameters for the single Liability. To invoke the Liability Score screen, click 'Score' button.



The screenshot shows a window titled "Liability Score". Inside the window, there is a table with the following columns: "Score Name", "Score Description", and "Score". The table is currently empty. There are "Ok" and "Exit" buttons at the bottom right of the window.

2.6.2 Specifying Liability Credit Rating

When Liability is created, Bank will assess the credit rating for the liability. You can link all the rating parameters to which the liability is associated to in the Liability Credit Rating screen. Click 'Credit Rating' button to invoke this screen.



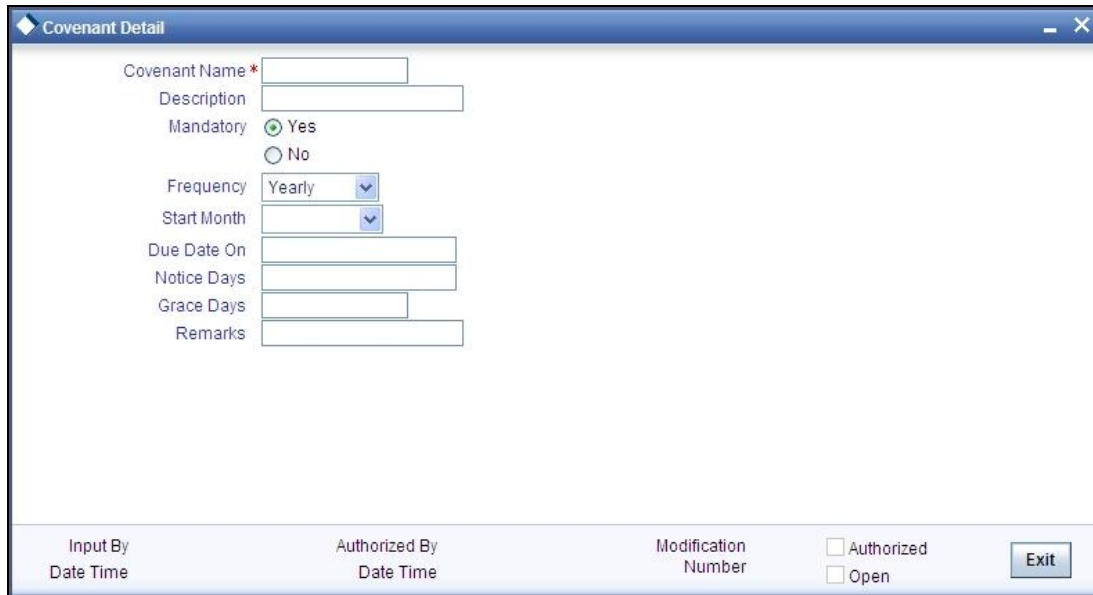
The screenshot shows a window titled "Credit Rating". Inside the window, there is a table with the following columns: "Agency Name", "Credit Rating", and "Primary". The table is currently empty. There are "Ok" and "Exit" buttons at the bottom right of the window.

Here you can select the Credit Rating Agency its Credit Rating for the liability. Out of all the Credit Ratings, you may select one as the primary rating for the Liability. You can maintain multiple score parameters for a single Liability.

2.7 Covenant Maintenance

As a part of maintaining Collaterals/Facilities, you may collect certain required information and documents from the customer regularly. Based on the information you may revise the collateral/facility details. The information or documents collected from the customer is termed as a 'Covenant'.

You can maintain Covenant details in the 'Covenant Maintenance' screen. You can invoke the 'Covenant Maintenance' screen by typing 'GEDCOVNT' 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 "Covenant Detail" with the following fields and controls:

- Covenant Name * (text input)
- Description (text input)
- Mandatory: Yes, No
- Frequency: Yearly (dropdown menu)
- Start Month (dropdown menu)
- Due Date On (text input)
- Notice Days (text input)
- Grace Days (text input)
- Remarks (text input)

At the bottom of the window, there are several fields and controls:

- Input By: Date Time
- Authorized By: Date Time
- Modification Number
- Authorized
- Open
- Exit button

Covenant Name and Description

Specify the Covenant Name for which information is entered. A maximum of 50 alpha numeric characters are allowed in this field. You may also provide a brief description of the covenant maintained.

Mandatory

Indicate whether covenant defined is mandatory as part of the process or not. You may change this preference when this covenant is linked to a Collateral/Facility.

Frequency

Select a frequency according to which the Covenant has to be collected/revisted. You may select any one of the following frequencies:

- Yearly
- Half Yearly
- Quarterly
- Monthly
- Weekly
- Daily

Start Month

If the Frequency select is Yearly, Half Yearly, Quarterly or Monthly, then specify the start month here.

Due Date On

Specify the number of days after which the covenant needs to be reviewed.

Grace days

Specify the Grace days past the next due/revision date allowed for renewal of the covenant.

Notice days

Specify the number of days in the notice period. The notice period will start this many days prior to the revision date of the covenant.

2.8 Collateral Types Maintenance

Collateral Types maintenance is used to capture all types of Collateral which your bank accepts. Collateral Types information would be required when creating a new collateral in the system.

You can maintain Collateral Types in the 'Collateral Types Maintenance' screen. You can invoke the 'Collateral Types Maintenance' screen by typing 'GEDCOLTY' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

This maintenance is at done at the bank level and all branches would be able to access this information.

The screenshot shows a software window titled "Collateral Type Maintenance". Inside the window, there are three input fields: "Collateral Type *" (with an asterisk indicating it's required), "Description", and "Interest Rate". Below these fields is a section labeled "Fields" which contains several labels: "Input By", "Authorized By", and "Modification Number". To the right of these labels are two checkboxes, "Authorized" and "Open". At the bottom right of the window is an "Exit" button.

Collateral Type

Specify the Collateral Type. A maximum of 20 characters are allowed in this field.

Collateral Type Description

Give a brief description of Collateral Type. A maximum of 50 characters are allowed in this field.

Interest Rate

Specify the interest rate to be applied on the customer account when customer uses the overdraft facility against the collateral type.

2.9 Collateral Category Maintenance

You can define the category to which collateral belongs to using the 'Collateral Category Maintenance' screen. You can invoke the 'Collateral Category Maintenance' screen by typing 'GEDCOLCA' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Haircut Name *	Description	Haircut Percentage	Primary
			<input type="checkbox"/>

Category Name and Description

Specify the Category name and a brief description of the category.

Collateral Type and Description

Specify the collateral type and a brief description of it.

Category Type

Indicate the category type from the following:

- Sovereigns
- Bank

- Corporate

Revision Date

Specify the date on which the Collateral Category has to be revised

Secured Type

Indicate the Collateral Exposure Type from the following:

- Secured
- Unsecured
- Liquid Type

Tangible Type

Specify the asset type here - Tangible or intangible.

Mortgage Type

For collateral types which belong to 'Real' category, you are required to indicate one of the following options as the mortgage type:

- Mortgage
- Non-mortgage
- Others

The system creates provisions for collateral types where the Mortgage Type is 'Mortgage' or Non-mortgage' based on the status of the loan account and the number of days for which loan payment has been overdue.

For more details on provisioning details refer the chapter 'Account Creation' in the Retail Lending user manual.



Note the following:

- You can indicate the Mortgage Type only if the collateral type category is 'Real'.
- Based on the number of overdue days, you can define the provision percentage and extent of coverage of collateral.
- In case of status movement of loan, the system passes the relevant accounting entries for provisioning.

Frequency

Select the frequency with which the collateral has to be revaluated. You can select one of the following:

- Yearly
- Half Yearly
- Quarterly
- Monthly
- Weekly
- Daily

Start Month

If the Frequency select is Yearly, Half Yearly, Quarterly or Monthly, then specify the start month here.

Due Date On

Specify the number of days after which the covenant needs to be reviewed.

Collateral Haircut Category

Here you can maintain several collateral haircut categories for use in the credit risk mitigation process. Multiple haircut records for same collateral category can be maintained.

Specify the following haircut details for each record:

- Haircut Name and Description
- Haircut Percentage - Specify the final Haircut (offset margin)
- Primary – Select a haircut as the primary haircut value for the Collateral Category

2.9.1 Maintaining Covenant Details for Collateral Category

To maintain the Covenant details for the Collateral Category, use the 'Collateral Category' screen. Invoke this screen by clicking 'Covenant' button.

The Revision Date for the covenant is generated based on the Frequency and Due date.

For example, if the collateral category covenant for a particular covenant name the frequency is monthly and the due date is 15. Based on the date of creation of the collateral covenant category (say 20 JAN 2008) the revision date will be 15-feb-2008.

The screenshot shows a software window titled "Collateral Covenant Category". Inside the window, there is a section labeled "Covenants" containing a table. The table has the following columns: "Covenant Name", "Description", "Revision Date", "Covenant Reference No", "Mandatory", and "Grac". The first row of the table is empty. Above the table, there are icons for adding (+), deleting (-), and refreshing (circular arrow). Below the table, there is a horizontal scrollbar. At the bottom right of the window, there are "Ok" and "Exit" buttons.

2.10 Issuer Maintenance

A customer is granted credit on the basis of his/her credit worthiness. The credit worthiness of a customer depends on the assets constituting the customer's portfolio. The type of collateral that a customer offers can be in the form of marketable or non-marketable securities.

Marketable collaterals, driven by market forces, tend to fluctuate unpredictably. You may hence need to monitor your bank's exposure to issuers of such collateral. The details of the issuer and limit for his securities can be defined using the 'Issuer Maintenance' screen.

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

Collateral Type *	Limit Currency *	Limit Amount

Limits for the issuers of Collateral can be setup at the following two levels:

- Overall limit for each Issuer
- Limit for the Securities issued by an Issuer

Issuer Code

Each Issuer whose securities the bank accepts should be assigned a unique code. The Issuer will be identified by this code. This code can also be used to retrieve information about the Issuer. Specify the Issuer Code here.

Overall Limit

Specify an Overall Limit for the issuer here. This limit indicates the maximum limit beyond which your bank would not like to expose itself to the Issuer.

An issuer can issue different types of market based securities; these could be debentures, shares, bonds etc. By defining an overall limit for an Issuer, the bank can limit its exposure to the issuer.

When the total of all the collateral given by the customer in the form of market- based securities exceeds the overall limit specified for the Issuer, the system will show an appropriate message indicating that the limit has been exceeded.

Overall Limit Currency

Specify the currency in which the Overall Limit is specified.

Issuer Identification Number

Specify the Issuer Identification Number, if any, here.

Issuer Details

Specify in brief any additional details of the issuer.

Issuer Limits for Collateral Types

An Issuer of Securities may issue different types of securities. These can be used by a customer as collateral for credit availed from the bank. The securities used as collateral can be debentures, shares, bonds, commercial papers etc. These securities can therefore be classified under different Collateral Types too.

For each security type that your bank accepts as collateral from the issuer, you can specify a limit indicating the maximum exposure amount (in value) to the issuer for this security type.

When the total of the collateral given by the customer in the form of a particular collateral type exceeds the limit set for the Issuer, the system will show you a notification.

You can define Issuer Limits for different collateral types under Issuer Limits. You can maintain several collateral types here, with their respective Limit Currencies and Limit Amounts.

2.11 Securities Maintenance

The credit facilities granted to the customers of the bank under a credit line can be backed by the securities that the customer offers as collateral. You can maintain the details of all such securities in the Oracle FLEXCUBE ELCM system. These details can then be used for determining the:

- Limit granted under a particular security
- Credit worthiness of a security when it's used as collateral

Since market based securities (Marketable Securities) are driven by market forces, the price of such securities tends to rise or fall in value. These fluctuations have a direct effect on the collateral value of the security. You can update the value of the collateral if the value of the security that backs it fluctuates beyond the increase and decrease sensitivity that has been specified.

You can capture details of marketable securities in the 'Securities' screen as shown below. You can invoke the 'Securities Maintenance' screen by typing 'GEDSECTY' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Details of the marketable security that your bank accepts as collateral can specified in the above screen.

Security Code

Assign a unique code to identify the security. This code is called the Security Code. This code is used while maintaining Collateral for a market value based Security.

Description

Describe in brief the security maintained.

Equity Base

Here you can specify the equity base for the security i.e. the total amount raised by the issue of this security. This entry is for information purposes only.

Example

Gem granites have come out with Debentures 98 and have raised US \$1 Million through this issue. This US \$1M that Gem Granites has raised constitutes the equity base for Debentures 98.

Price Increase Sensitivity and Price Decrease Sensitivity

If the value of collateral is backed by a marketable security (whose value is driven by market forces) you may want to revalue the collateral, so that its value reflects the current market price of the security, which backs it. To do so, you should specify your sensitivity to the security.

The price sensitivity of a security is expressed as a percentage. You should specify the percentage increase or decrease (the upper and lower limits) above or below the current market price, which should trigger the revaluation process. The revaluation process revalues the collateral if the price of the securities that backs it fluctuates above or below the sensitivity you have defined.

Price Increase Sensitivity denotes the percentage increase in the market price that should trigger a revaluation of the Collateral. This means, if the current market price of the security rises above the old market price by the percentage you have defined as the Increase sensitivity for the security, then the revaluation process happens.

Example

Consider a case wherein you have specified the price increase sensitivity for Debentures 98 to be 15%. If the market price of the security has increased from \$100 to \$125. At this rise in the market price of the security (which is 25% above the old market value), the revaluation process will be triggered off, so that the Collateral value of the security reflects its current market value.

Price Decrease Sensitivity denotes the percentage decrease in the market price of the security that should trigger a revaluation of the Collateral. This means, if the current market price of the security falls below the old market price by the percentage you have defined as the decrease sensitivity for the security, the revaluation process happens.

Example

Consider a case wherein you had specified the price decrease sensitivity of Debentures 98 to be 15%. If the market price of the security has decreased from US \$100 to US \$75. At this fall in the market price of the security (which is 33.33% below the old market value of the security), the revaluation process will be triggered off, so that the Collateral value of the security reflects its current market price.

Currency

Specify the currency to be associated with the Security using the list available here. Once authorized this entry cannot be changed.

Face Value

Specify the face value of the security. A maximum of 50 numeric characters are allowed here.

Collateral Type

Specify the collateral type here.

Issuer Code

Specify the issuer code for the customer for whom the securities are collected. The list of issuers is available here.

Start Date and Expiry Date

Specify Start date and Expiry Date of the security in these fields

Limit Amount

Specify the limit amount for the particular security.

Nominal Value Based

Select this check box if the collateral value is to be calculated on the nominal value based for a particular security.

Security Price

If the security is quoted in different markets, its value would differ in different markets. You can maintain the various market prices of the security under the Security Price table.

You can specify the following details here:

- Price Code - Indicates the market place for which the price is quoted
- Market Price - Price of the security in that market
- Last Price Change - Date on which the price was last changed

2.12 Collaterals Maintenance

In the 'Collaterals Maintenance' screen, you can maintain the details of collateral offered by customers for the credit that the bank grants under a credit line. The collateral can either be market value based or non market value based.

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

In the above screen you can specify the contribution that the collateral should make to the limit assigned to a customer under a credit line.

The collateral details which are associated with a collateral code can be picked up during collateral pool maintenance.

Liability Number

Collaterals issued have to be linked to a liability. Specify the liability Number for which the collateral is linked.

Collateral Code

Specify the Collateral Code here. A maximum of 20 alphanumeric characters are allowed in this field. There should be only one Collateral code for a given Liability.

Collateral Description

Give a brief description of the collateral here.

Collateral Type

Indicate the type of collateral - Market Based Type, Guarantee Type or Normal Type.

Secured Type

Indicate the Collateral Exposure Type here. A particular collateral category can be of a Secured or Unsecured or Liquid Type.

Auto Pool Create

Check this box if you wish to automatically create a collateral pool as and when you create collateral. To facilitate this, it is essential that the 'Available' option be checked for the collateral. The system then creates a collateral pool with the following characteristics when you save the record:

- The Pool Code, Pool Description and Pool Currency are the Collateral Code, Collateral Description and Collateral Currency respectively.
- The Collateral Linked Percentage is set at 100%.



You cannot modify this option after you authorize the collateral.

Mortgage Initiated

On authorizing a mortgage loan account, the system creates collateral and collateral pool based on the property details maintained in the Mortgage Tab and 'Mortgage Initiated' option will be checked automatically.

Collateral Currency

Specify the currency in which the Collateral has to be maintained. Once authorized you cannot change this entry.

Charge Type

Select the charge type from the following list:

- Lien
- Pledge
- Hypothecation
- Mortgage
- Assignment

Haircut (%)

Specify the bank's margin (Haircut) to be assigned for Collateral.

Available

This check box will be checked by default, indicating that the collateral is available for linking to the collateral pool. You can uncheck this so as to manually freeze this collateral.

If the 'Available' check box is unchecked then the collateral will be frozen i.e. it will not be available for subsequent linkages to new collateral pools. The collateral's current links to collateral pools will not be affected.



Note the following:

- As a part of Collateral Pool creation for a Liability, only those collaterals which are checked as 'Available' will be displayed in the list for collateral pool linkage.
- Collateral which was 'Available' and which has been linked to pool/pools can modified as unavailable later on. Unavailable collateral will not be available for subsequent new collateral pool linkages, but the old linkages will not be affected.

Sharing Required

Check this box to indicate that the collateral can be shared among several liabilities. If you choose this option, you can specify the details of such liabilities in the 'Shared Details' screen.

If this option is chosen then in collateral maintenance for a collateral pool, the list of collaterals will include shared collaterals too. As part of Collateral Revaluation, pools with the shared collaterals will be considered for revaluation.

Branch

By default, the branch code in which collateral is created is displayed here and you cannot modify this value.

Lendable Margin

Specify the bank's lendable margin assigned for the Collateral. This value will be

100 – Haircut (%).

Collateral Value

The collateral value depends on whether the security is Market Value based or Non-Market Value based.

If it is market value based then the collateral value is calculated as shown in the following examples.

Example

Input in case of a nominal quoted security:

Nominal Amount	Price Code	Market Price	Collateral Value [(Market price/100) * Nominal Amount]
10,00,000	BOM1	65	$(65/100) * 10,00,000=650000$
5,00,000	BOM2	70	$(70/100) * 5,00,000= 350000$
7,00,000	BOM3	80	$(80/100) * 7,00,000= 560000$

Input in case of a unit quoted security:

Number of Units	Price Code	Market Price	Collateral Value (Number of Units x Market price)
65	BOM1	120	7800
70	BOM2	130	9100
40	CAL1	95	3800

If it is Non-Market Value based then the user has to enter the collateral value manually.

Limit Contribution

Specify the final amount contribution that will be applicable for a Limit.

Example

Collateral is valued at \$1000, and you wish to offer the customer credit only worth \$ 980. This amount is 98% of the collateral contribution.

$(1000 - 980) / 1000 = 2\%$ is the Hair cut percentage

This means you want to have a lendable margin of 98%.

For instance, if you enter the lendable margin percentage, then based on the value you enter, the hair cut will be calculated as described above and the limit contribution will be calculated.

Start Date and End Date

Specify the tenor of the collateral using the Start Date and End Date fields. The collateral is considered effective only during this period.

The start date indicates the date from which the collateral becomes effective. The end date that you specify indicates the date on which the collateral ceases to exist. On the end date, the credit limit, of the credit line backed by the collateral, will be reduced by the amount that the collateral contributes to the credit line.

Reevaluate Collateral

Select the check box if the collateral is to be revaluated.

Revaluation Date

Specify the date on which the next revaluation has to be done.

Revision Date

Specify the date on which this collateral has to be revisited for review.

Interest Rate

The interest rate to be applied if the customer uses overdraft facility against the collateral gets defaulted here when you select the 'Collateral Category'.

Tangible Type

The system displays the tangible type based on the collateral category. This can be one of the following:

- Tangible
- Intangible

2.12.1 Specifying Details for Market Value Based Type

For a market value based security you must maintain the following security related details.

Security Code

Specify the security code for which the collateral is linked. On specifying the security code, the price details and Market where security is traded are displayed.

Number of Units/Nominal Value

The collateral value of Marketable Securities will be computed by multiplying its market value (which is picked up from the Securities maintenance screen) by the number of units of the security that constitutes the collateral. Therefore, while maintaining details of Marketable Collateral, it is mandatory to specify the number of units of the marketable asset that constitutes the collateral.

If the security is nominal value based, input the nominal value of the security.

If it is a units quoted security then enter the number of units of the security that the bank accepts as collateral.

Cap Amount

As the price of marketable securities tend to fluctuate based on the forces of demand and supply, specify an upper limit on the contribution of this security to the collateral value, as a result of an increase in the price of the security. This upper limit is called the Cap Amount. The Cap Amount indicates that at any point in time the limit contribution of the collateral cannot exceed this amount, even though its actual computed value is much higher. However, if the actual computed value of the collateral is lower than the Cap Amount, then the system picks up the collateral value as the actual computed value.

Price Code

Specify the market price code (E.g. NYSE, NASDAQ) based on which the revaluation price for collateral value calculation should be considered.

Last Revaluation Price

The last market price based on which the collateral value was revaluated will be displayed here.

Revaluation Due Date

This field will indicate when value associated to Frequency. It is a Number field and only Positive Integers should be keyed in. This indicates the number of days after which the due date of collateral has to be revaluated.

2.12.2 Specifying Details for Guarantee Based Type

Guarantor ID

Specify the customer number (CIF ID) of the guarantor. This field is alpha numeric and a maximum of 50 characters can be entered.

Rating of Guarantor

You can assign a credit rating to each Guarantor. Here specify the rating assigned to the Guarantor. This Field is of numeric and maximum of 50 digits can be entered.

Revocable

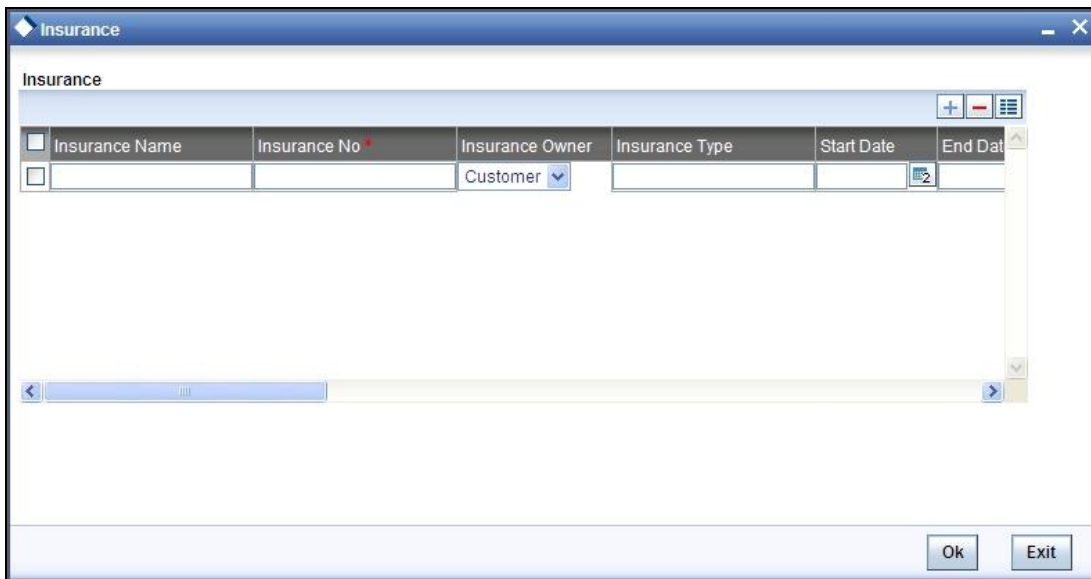
Indicate whether the Guarantor can revoke (withdraw) this guarantee provided or not.

Revoke Date

Indicate the date when the Guarantor will revoke the guarantee. This field is enabled only when the Revoke check box is selected.

2.12.3 Specifying the Insurance Details

You may enter the Insurance details for a Collateral via the 'Insurance Details' screen. Click 'Insurance' button to invoke this screen.



The screenshot shows a window titled "Insurance" with a table for entering details. The table has the following columns: Insurance Name, Insurance No, Insurance Owner, Insurance Type, Start Date, and End Date. The Insurance Owner is currently set to "Customer". There are "Ok" and "Exit" buttons at the bottom right of the window.

Insurance Name	Insurance No	Insurance Owner	Insurance Type	Start Date	End Date
		Customer			

You can specify the following details:

Insurance Name

Specify the name of the Insurance/Insurance Company associated with the collateral.

Insurance Number

Specify the insurance number under which that insurance has been issued.

Insurance Owner

Select the owner of the insurance policy from the adjoining drop-down list. This list displays the following values:

- Bank
- Customer

Insurance Type

Specify the type of the insurance (e.g. FIRE, DAMAGE, THIEFT etc) that has been associated for that collateral.

Start Date

Specify the start date for that insurance.

End Date

Specify the end date for that insurance.

Revision Date

Specify the date of revision of the insurance.

Notice Days

Specify the notice days i.e. the number of days prior to next revision date of the covenant. The period during the notice days will be the notice period.

Insurance Premium Periodicity

Select the premium periodicity of the insurance. The list displays the following values:

- Daily
- Weekly
- Monthly
- Quarterly
- Half Yearly
- Yearly

Premium Status

Specify the insurance premium status, where in the premium status like normal, overdue, premium payment failure status etc can be specified.

Premium End Date

Specify the end date of the premium payment.

Insurance Amount

Specify the insured amount of the policy.

Insurance Currency

Specify the insurance currency of the policy.

Cover Date

Specify the date from which the insurance policy is valid. The insurance cover date cannot be greater than the collateral expiry date.

Insurance Code

Specify the insurance code of the policy for which you want to capture insurance details.

Premium Currency

Specify the currency of the premium to be paid.

Premium Amount

Specify the amount of the premium to be paid.

Remarks

Specify the remarks about the insurance details.

Coverage

Specify the coverage details of the insurance.

2.12.4 Specifying Covenant Details

The covenant details can be captured for a collateral in the 'Covenant Details' screen. Click 'Covenant' button to invoke this screen.

Multiple covenants can be entered in the screen shown below. You can customize the details of each covenant recorded here.

CovenantName	Description	Revision Date	Mandatory	Grace Days	Notice Days	Frequency
<input type="checkbox"/>			<input type="checkbox"/>			Mor

Covenant Name

Select the covenant name from the list available here. The list displays the covenant names maintained in Covenant Maintenance screen. Based on the covenant selected, all other details of the covenant maintenance will be brought here.

Mandatory

Mandatory/Non mandatory details will be shown on choosing a covenant name. You may change this.

Frequency

You may change the frequency shown here on choosing a covenant name.

Grace Days

You can change the Grace Days details which are displayed here on choosing a covenant name.

Notice Days

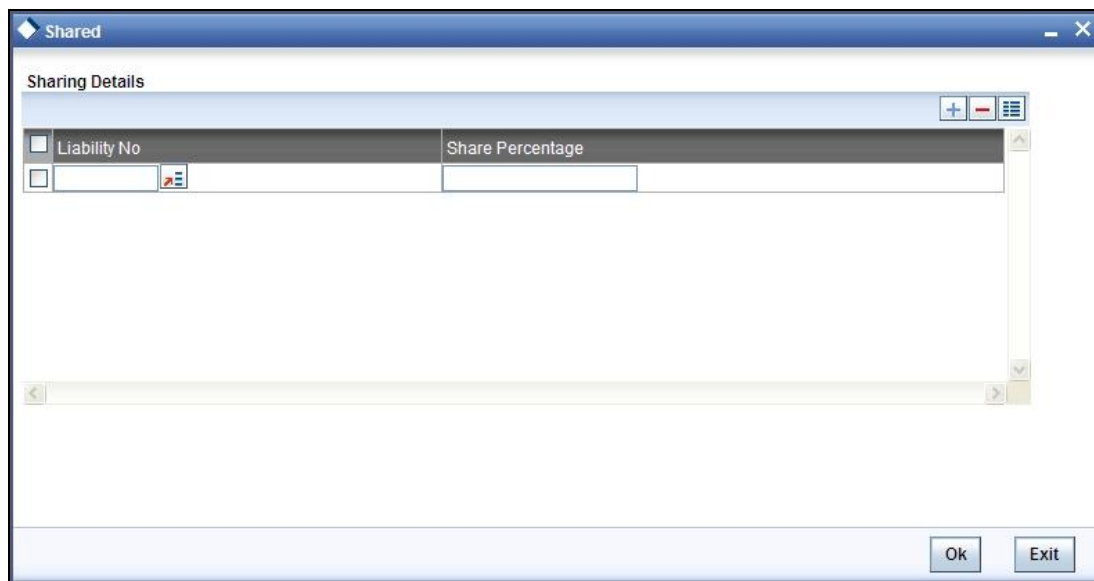
Specify the notice days i.e. the number of days prior to next revision date of the covenant. The period during the notice days will be the notice period.

Revision Date

You can change the Revision Date Details which are displayed here on choosing a covenant name.

2.12.5 Specifying Shared Details

The details of the liabilities sharing the collateral can be captured for a collateral in the 'Shared Details' screen. Click 'Shared Details' button to invoke this screen.



The screenshot shows a window titled "Shared" with a "Sharing Details" section. It contains a table with two columns: "Liability No" and "Share Percentage". The table has one row with empty input fields. There are "Ok" and "Exit" buttons at the bottom right.

Liability No	Share Percentage
<input type="text"/>	<input type="text"/>

Liability Number

Specify the liability number of the liability that is sharing the collateral. Each liability mapped here cannot be more than 100% of the total collateral value.

Shared Percentage

Specify the percentage share of the liability in the collateral.

You can modify the above details post authorization. However the modification must be authorized.

2.12.6 Linking Contracts as Collaterals

The Oracle FLEXCUBE ELCM system supports linking of Term Deposit Accounts or Contracts as collaterals. You can link the Term Deposit Account Number or Contract Reference Number as collateral to a Liability in the Collateral Maintenance screen. The system subsequently blocks/marks Lien on the linked Term Deposit.

STOP Once a Term Deposit has been linked as collateral, the system will generate an output batch file to block/mark Lien on the linked Term deposits Accounts/Contracts. This output batch file will be generated as a part of Out Bound Batch Transaction.

For linking a contract as collateral, click 'Linked Contract'. The following screen appears where in you can link the Term Deposit Contract Reference Numbers of all Term Deposits you wish to link.

Contract Ref No	Branch	Contract Contribution
<input type="text"/>		

Modification of existing linked contracts can also be done in the above screen.

Contract Reference No

You can link the Term Deposit Account Number or Contract Reference Number as collateral for a Liability by specifying the 'Contract Reference No' here. The adjoining list of options in this field displays all contract types other than Contract Type 'AC'.

STOP Note the following:

- The Term Deposit contract needed for Collateral Linkage must be maintained in Netting Maintenance with any contract type other than 'AC'
- Once the contract is linked as collateral, then its collateral value cannot exceed its contract amount as maintained in the Account Netting screen.
- The start date of the collateral should be later than the value date of the respective contract netting maintenance. Likewise, the expiry date of the collateral should be earlier than the expiry date of the respective contract netting maintenance.
- The system blocks/marks Lien on the linked Term Deposit contract.

Contract Contribution

Specify here the amount being contributed from the contract as a collateral for the liability.

On saving the above maintenance, the system computes the sum of all the collateral values (specified under 'Contract Contribution') and updates the same in the 'Collateral Value' field of the 'Collaterals Maintenance' screen.



You are allowed to link contracts associated to LC, BC and MM modules as part collateral maintenance in ELCM. The maximum amount which is contributed to the collateral is the contract amount.

2.12.7 Maintaining UDE Values

You can capture UDE values details for a collateral in the 'UDE Value Details' screen. Click 'UDE Values' button in 'Collateral Maintenance' screen to invoke the below screen.

Commitment Branch

Select the branch from the adjoining option list in which the commitment contract needs to be created.

Commitment Product

Select the product code from the adjoining option list to be used for creating the commitment contract.



If the commitment contract is created in FCUBS, then the system will not allow modify the product code.

Commitment Settlement Account

Select the settlement account number from the adjoining option list used in commitment contract for passing the accounting entries.

Commitment Settlement Branch

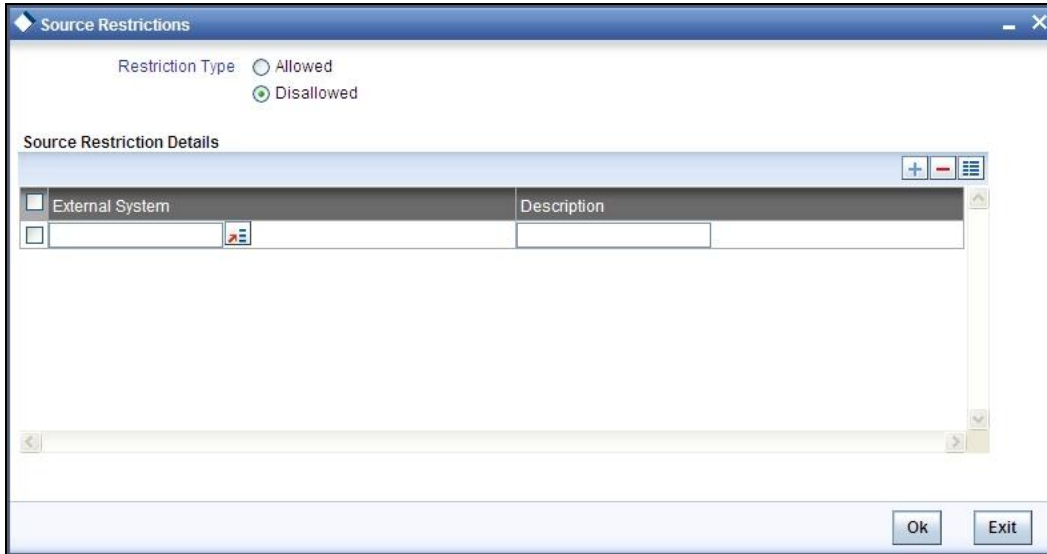
Specify the commitment settlement branch code used in commitment contract for passing the accounting entries.

Commitment Ref No

Specify the Commitment reference number.

2.12.8 Maintaining Source Restrictions

You can specify which sources are allowed or restricted to access the collateral in 'Source Restrictions' screen. Click on 'Source Restrictions' button to invoke this screen.



Restriction Type

Choose the 'Allowed' option to maintain an allowed list of liability restrictions. Choose the 'Disallowed' option to maintain a disallowed list of liability restrictions.

Default value of this field will be 'Disallowed'. If you select restriction type as 'allowed', then you need to input at least one record.

Source

Specify the source from the adjoining option list.

2.13 Collateral Pool Maintenance

You may group together two or more collaterals to create a Collateral Pool. You can create and maintain collateral pools in the 'Collateral Pools Maintenance' screen.

You can invoke the 'Collateral Pools Maintenance' screen by typing 'GEDMPOOL' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Liability Number

Specify the liability to which the collaterals need to be linked.

Pool Code

Specify the Pool Code here. The pool code assigned to each collateral pool can be linked to a Liability while creating credit limits.

Pool Code Description

Specify a brief description of the collateral pool here.

Pool Currency

Specify the currency in which the Collateral Pool has to be maintained.

Mortgage Initiated

This option will be checked automatically for collateral and collateral pool created as a result of authorization of mortgage account and you cannot modify it.

Auto Facility Create

Check this box to indicate that a facility should be created automatically for the given Liability number with line code as pool code.



This automatically created line code can be used to maintain limits for customer account in 'Account Limits' screen, if required.

Tangible Type

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

- Tangible
- Intangible

- Both

By default, the system displays the tangible type as 'Tangible'.



For the pool, the system will allow you to select only the type of category collaterals selected here.

For more details on maintaining Account Limits, refer Core Entities User Manual.

2.13.1 Creating Collateral Pool Linkages

Under 'Collateral Pool Linkages' you can add the different collaterals pooled in for the particular Liability.

To add a new collateral click 'Plus' button, specify the relevant details and save the record.

To delete an existing collateral, select it and then click 'Minus' button and save the record.

While creating collateral pools, remember the following:

- Collateral can be linked to more than one pool if the collateral amount available is not zero.
- A credit line can be backed by only one pool but a single pool can back multiple credit lines.

You must maintain the following details for each of the collateral.

Collateral Identifier

Specify the collateral code here.

Collateral Currency

The currency in which the collateral has been maintained will be displayed when a collateral code has been picked.

Collateral Amount

The collateral amount which has been maintained will be displayed when a collateral code has been picked.

Linked Amount

Specify the part of the collateral amount which has to be linked to the pool. This indicates whether the pool contribution amount is less than or equal to the collateral amount. Hence for every collateral that you choose to include in the pool you can indicate whether the entire collateral amount or only a part it should be contributed to the pool amount.

Linked Amount Pool Currency

In addition to specifying the linked amount you also have to specify the currency of the pool. This is essential because the collaterals linked to a pool can be in different currencies.

For Example, you have linked the pool 'LOANP001' to the liability 'BIRLA0001'. LOANP001 is in turn backed by the following collaterals:

Collateral Code	Ccy	Collateral Amount	Linked Amount
ISDP16924	DEM	100,000	75,000
AC777228	GBP	55,000	55,000
COLSHRS15	INR	2,000.000	1,500,000
COLHS819	USD	1,500,000	1,500,000

Now the pool currency specified is USD. Therefore the system does the necessary calculations and converts the linked amount into the currency of the pool and displays the pool amount in the respective field.

Linked Percent Number

The part of the collateral amount which has to be linked to the pool can be specified as a percentage here.

Pool Amount

The entire Collateral Linked amount will be displayed in this field.

Utilization

This field displays the pool amount that has been linked to a various credit lines, hence displaying the total pool amount utilized at any point in time.

Available Interest Rate

The interest rate maintained for the collateral code in 'Collateral Type Maintenance' screen gets defaulted here,

Interest Spread

Specify the interest spread to be applied on the customer account. The interest spread can be zero. However, if the collateral attached is a term deposit, then on rollover of the term deposit the interest spread is defaulted to the spread applicable for the term deposit on rollover.

Rate of Interest

The rate of interest applicable on the customer account when customer uses the overdraft facility against the collateral type is derived as follows:

$$\text{Rate of Interest} = \text{Available Interest Rate} + \text{Interest Spread} + \text{Customer spread}$$

Expiry Date

Expiry date gets defaulted from the end date of the collateral maintained. However, if the collateral attached is of a deposit then on rollover of the term deposit the maturity date of the term deposit is updated as the expiry date of the collateral.



Note the following:

- The batch program 'CASABAT' is used to update the overdraft utilization at collateral level.

- If a rollover happens for a TD linked as collateral, during BOD, the interest rate applied on the TD gets updated to the interest rate value maintained at the collateral pool level.

2.14 Facilities Maintenance

You can maintain credit limits for a Line Code - Liability Code combination in the 'Facilities Maintenance' screen. You can invoke the 'Facilities Maintenance' screen by typing 'GEDFACTL' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Liability ID

Specify the Liability ID here.

Line Code

Specify the Line Code to which the liability ID is to be associated with. Allocating credit limits for the Line-Liability combination can be done. The customer(s) who fall under this Liability Code will in turn avail credit facilities under this Credit line.

By linking a Credit Line to a Liability code the customer also gets linked to the Credit Line. This is true because a Liability code has been assigned to every credit seeking customer and the credit facilities granted to the customer are defined and tracked against this code.

Serial Number

Each time a customer - line code combination is specified, Oracle FLEXCUBE ELCM system assigns a unique serial number to the combination. This serial number is unique to the line-liability code combination. Thus, for every new record entered for a Line-Liability combination, a new serial number is generated. The Line - Liability - Serial number forms a unique combination.

Facility Branch

By default, the system displays the branch code in which facility has been created. You can change the branch code from the adjoining option list before saving the facility. Once the facility is saved, you cannot modify the branch code.

Line Currency

Specify the currency in which the facility is defined. The currency that has been selected will have the following implications:

- The limit amount that has been specified for this Line-Liability combination is taken to be in this currency.
- The line that has been defined will be available for Utilization only in the line currency, unless specified otherwise under Currency Restrictions in this screen.

Once the entry is authorized you cannot change the currency.

If the limit allotted to this Line-Liability combination can be utilized by accounts and transactions in currencies other than the limit currency, the limit utilization will be arrived at by using the mid rate for the currency pair as of that day.

Shadow Limit

Select this check box to indicate that utilization amounts should be updated only for the facility and mainlines for the facility. Thus, when a utilization request is processed, the system updates the utilization amount only at the facility level and leaves the utilization amount at the liability level untouched.

The mainline and sub-lines of a facility need to have the same preference. This implies that you can enable this option for a sub-line only if the mainline has this option already enabled. Similarly, you cannot create a sub-line as a 'Shadow Limit' if the mainline does not have this facility.



You cannot modify this option after you authorize the facility.

Bulk Payment Required

Check this box to indicate if bulk payment is required. If you specify here that bulk payment is required for the liner, then the same is maintained at the 'Bulk Payments' screen.

For more information about the 'Bulk Payments' screen please refer to the section, 'Making Bulk Payments against loan or commitment' under the Chapter 'Operations' of the 'Retail Lending' user manual.

Funded

Indicate whether the line is fund based or non fund based.

Project ID

The system will display the Project ID that this facility is linked to.

PPC ID

The system will display the PPC ID that this facility is linked to.

Universal Line

Check this box to indicate that the line created is of universal type.

The universal line is a non-revolving line created in Limit Maintenance. The universal line is not a LOC line. On creation of a universal line, the system passes the following contingent entries for the initiation of the line.

DR CR Indicator	Event Code	Accounting Role	Amount Tag
D	BOOK	UNUTLLMTGL	PRINCIPAL_FWD
C	BOOK	UNUTLLMTOFF	PRINCIPAL_FWD

You can link the limit lines of line of credit accounts with such universal lines. Subsequently, when the line of credit account gets activated, System passes the following contingent entries for GL for the linked universal line during EOD and utilizes this universal line.

DR CR Indicator	Event Code	Account Role Code	Amount Tag
C	LINK	UNUTLLMTGL	COMMUTIL_INCR
D	LINK	UNUTLLMTOFF	COMMUTIL_INCR

Example

Consider the following details:

	Amount	Debit	Credit	Balance to Cont. GL for Universal Line
Universal Line Creation	10,000,000	10,000,000	---	10,000,000
Creation of Line for Line of Credit	500,000	---	---	10,000,000
Linking of Line to Line of Credit Account	500,000	---	---	10,000,000
Activation of Line of Credit Account to which the above limit is linked	500,000	---	500,000	9,500,000
Universal Line Creation	10,000,000	10,000,000	---	10,000,000

Suppose that the line of credit account is linked to the universal line. Then, at the time of activation of line of aforesaid line of credit account, the system passes the entries provided in the above table. If the line of credit is not linked to the universal line, the system will not pass any accounting entry to universal line liability GL from line of credit.

Revolving Line

Select this check box to indicate that the credit line is Revolving. A revolving credit line indicates that a repayment of the utilized credit should reinstate the credit limit of the customer. You can modify the preference, as required.

Example

You have defined the Credit Line for your customer ABC Corporation for Loans to be \$1 Million. You also define the credit line to be revolving.

ABC Corporation takes a loan for \$ 300,000 on 01 January 1998. ABC s credit limit now stands at \$700,000 as it is reduced by \$ 300,000 on account of the loan.

The repayment schedule for the loan as follows:

- USD 100,000 to be repaid on 01 February 1998
- USD 100,000 to be repaid on 01 March 1998
- USD 100,000 to be repaid on 01 April 1998

On 1 February 1999, when ABC repays \$ 100,000, its credit limit is reinstated by \$100,000. Therefore on 01 February 1998, the available Credit Limit of ABC stands reinstated at \$ 800,000.

You can define a credit line as Non-revolving for a special transaction line or to allot a one-time credit facility to a customer. This will ensure that the line is used for just one transaction and repayments on that transaction will not make the limit available again.

Example

You have defined the Credit Line for your customer ABC Corporation for Loans to be \$1 Million. You also define the credit line to be non-revolving.

ABC Corporation takes a loan for \$ 300,000 on 01 January 1998. ABC s credit limit now stands at \$700,000, as it is reduced by \$ 300,000 on account of the loan.

The repayment schedule for the loan as follows:

- US \$100,000 to be repaid on 01 February 1998
- US \$100,000 to be repaid on 01 March 1998
- US \$ 100,000 to be repaid on 01 April 1998

On 1 February 1999, when ABC repays US \$100,000, its credit limit will not be reinstated by US \$100,000 repayment. Therefore on 01 February 1998, the Credit Limit available to ABC will remain at US \$700,000.

Unadvised

Check this box to indicate that the facility is unadvised.



Charges can be collected on the utilization transactions for facilities that are unadvised. For this purpose SDEs ADVISED_LINE and COMMITMENT_CUR_UTIL can be used while setting up the charge rule at the CL product creation level.

Availability – Available

If the Line facility is available then this check box will be checked.

The Oracle FLEXCUBE ELCM system tracks the status of both the Contract and the Facility. When the status of the Contract changes to PDO, then the Facility will become unavailable.

The product processor will give an ASCII file including all the facilities which need to be frozen. Oracle FLEXCUBE ELCM will initiate an amendment event and then un-checks the 'Available' check box.

Approved Limit Amount

This is the maximum limit amount allowed for the facility and must be specified whenever you maintain schedule limits. The system ensures that neither the 'Limit Amount' maintained here nor the schedule 'Limit Amount' (maintained as part of the limits schedule) is equal to or greater than the limit specified here.

Once the above entry is authorized, then you cannot modify it.

Limit Amount

Specify the limit for the facility. If you have maintained schedules for limits, the system automatically updates the limit amount here on the dates specified for each limit in the schedule.



The charges can be collected on facility limit amount change. In this case commitment contract created should be capable of charging the customer on the facility limit amount change. For this purpose SDE INCREASED_PRINCIPAL can be used while setting up the charge rule at the CL product creation level.

Effective Line Amount Basis

For defining drawing power of line the elements mentioned below are treated as the basis for the effective line amount calculation.

- Line Amount + Collateral
- Line Amount
- Minimum of Line Amount and Collateral

The effective line amount basis will be validated for the following criteria:

- Effective line amount basis will be defaulted from the template
- Effective line amount basis will be made as a mandatory field
- Effective line amount basis will be allowed to change only before first authorization of line

The Effective Limit Amount can be modified only before the first authorization of the Line.

Internal Remarks

Specify the internal remarks as limits terms and conditions.

Availment Expiry Date

Specify the expiry date on which first utilization should happen. If the limit amount assigned to the facility is not utilized within the specified expiry date then the Available check box will remain unselected. This freezes the line for the respective liability.

The freezing of the line code will be part of the Oracle FLEXCUBE ELCM EOD Batch.

The Oracle FLEXCUBE ELCM system will not allow the expiry date of a facility to exceed the expiry date of linked collateral(s).

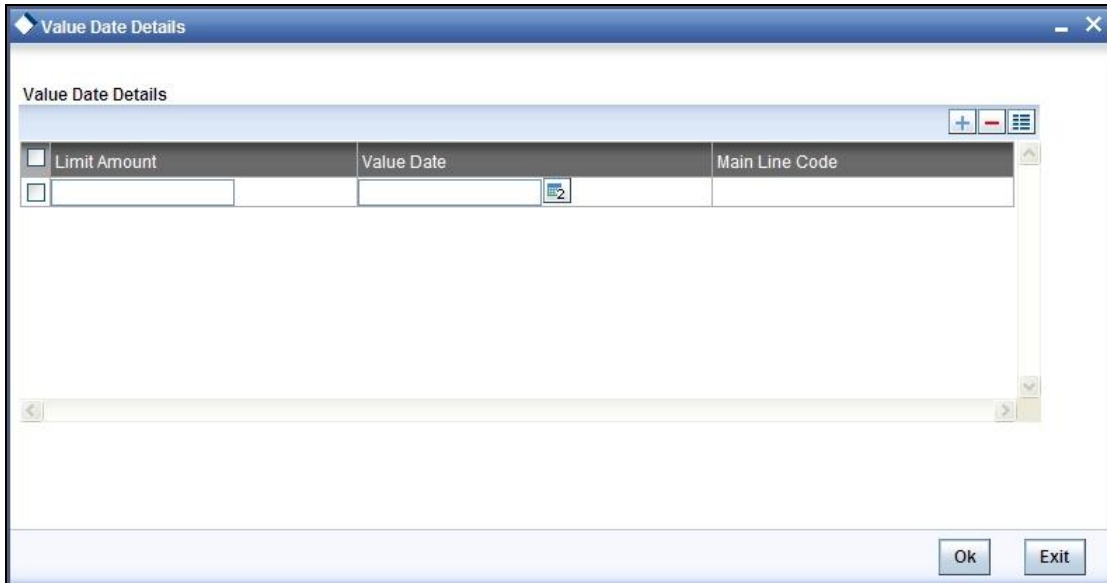
When a Facility record is saved, the system will compare the expiry date of all the collaterals in the Pool which is linked to the Facility. An error message will be shown if any expiry dates are less than the expiry date of the Facility.

Last Availability Date

Specify the date until the line can be utilized by the customer.

2.14.1 Maintaining Value Dates Details

To maintain details regarding value dates, click 'Value Date' button.



The screenshot shows a window titled "Value Date Details". Inside the window, there is a table with three columns: "Limit Amount", "Value Date", and "Main Line Code". The "Limit Amount" column has a checkbox in the first row. The "Value Date" column has a date picker icon in the first row. The "Main Line Code" column is empty in the first row. There are also "Ok" and "Exit" buttons at the bottom right of the window.

Limit Amount	Value Date	Main Line Code
<input type="checkbox"/>		

Value dated limits for a particular facility are automatically populated in the above screen when you save the Facility. The following are the details available:

- Value dated Limit Amount
- Value Date after which the mentioned amount is valid – You may modify this when required.
- Main Line to which the limit amount is linked to

2.14.2 Tracing Exposure Restrictions for a Line

The facility defined can be restricted for particular Tracing exposures. Sector Code maintained as part of sector type maintenance has to be selected and associated for the facility to specify sector code restrictions. The selected sector code and line code will not be allowed to be a part of sector maintenance and sector exposure calculation.

2.14.3 Capturing Facility Maintenance Charges Details

To capture facility maintenance charge details, click 'Charges' button.

The screenshot shows a dialog box titled "Charge Details" with the following fields:

Field	Type
Admin Charge Type	Dropdown
Admin Charge Percent	Text Box
Admin Charge Amount	Text Box
Unutilized Charge Type	Dropdown
Unutilized Charge Percent	Text Box
Unutilized Charge Amount	Text Box
Utilized Charge Type	Dropdown
Utilized Charge Percent	Text Box
Utilized Charge Amount	Text Box

Buttons: Ok, Exit

Admin Charge

Administrations charges as a part of creation of new line can be specified here. Charge can be a fixed amount or a percentage of the Limits amount.

Unutilized Amount Charge

Specify the charge amount that has to be collected on a certain frequency (daily, monthly etc) based on the unutilized amount. Charge can be a fixed amount or a percentage of the unutilized amount.

Utilized Amount Charge

Specify the charge amount that has to be collected on a certain frequency (daily, monthly etc) based on the utilized amount. Charge can be a fixed amount or a percentage of the utilized amount.

Limit Transaction Amount

Specify the limit transaction amount. During utilization transaction when utilization amount crosses the specified limit transaction amount it will trigger BEPL process for Credit Exception Management to authorize the credit utilization amount. The limit transaction amount specified must be below the total effective line amount specified for that facility.

Breached Transaction Amount

Specify the Breached transaction amount. During utilization transaction when utilization amount crosses the specified limit transaction amount it will trigger BEPL process for Credit Exception Management to authorize the credit utilization amount. The limit transaction amount specified must be below the total effective line amount specified for that facility.

2.14.4 Specifying Covenant Details

The covenant details can be captured for facility in the 'Covenant Details' screen. Click 'Covenants' to invoke this screen.

Multiple covenants can be entered in the screen shown below. You can customize the details of each covenant recorded here.

Covenant Name	Description	Mandatory	Frequency	Period	Start Date	Grace Days
		<input type="checkbox"/>	Yearly			2

Covenant Name

Select the covenant name from the list available here. The list displays the covenant names maintained in Covenant Maintenance screen. Based on the covenant selected, all other details of the covenant maintenance will be brought here.

Mandatory

Mandatory/Non mandatory details will be shown on choosing a covenant name. You may change this.

Frequency

You may change the frequency shown here on choosing a covenant name.

Grace Days

You can change the Grace Days details which are displayed here on choosing a covenant name.

Notice Days

Specify the notice days i.e. the number of days prior to next revision date of the covenant. The period during the notice days will be the notice period.

Revision Date

You can change the Revision Date Details which are displayed here on choosing a covenant name.

Conversion Date

Conversion Date is the date when facility has been migrated from other system to Oracle FLEXCUBE ELCM.

2.14.5 Maintaining Restrictions for a Line

By default, all customers, branches and products maintained in your bank can utilize the limit defined for a credit line. You can also define the limit for a line in any currency. However, you can opt to restrict the limit available under a credit line to specific customers, branches, products and currencies.

You can define these restrictions in the Limits Restrictions screen. To invoke this screen, click 'Limit Restrictions' button from the Limits Maintenance Detailed screen.

Limit Restrictions
- X

Restriction Type: Allowed
 Disallowed

Restriction Type: Allowed
 Disallowed

Customer Restrictions

+ - [List Icon]

Customer Number *	Short Name
<input type="text"/>	<input type="text"/>

Restriction Type: Allowed
 Disallowed

Currency Restrictions

+ - [List Icon]

Currency Code *	Currency Name
<input type="text"/>	<input type="text"/>

Restriction Type: Allowed
 Disallowed

Branch Restrictions

+ - [List Icon]

Branch Code *	Branch Name
<input type="text"/>	<input type="text"/>

Restriction Type: Allowed
 Disallowed

Product Restrictions

+ - [List Icon]

Source	Product Code *	Product Desc
<input type="text"/>	<input type="text"/>	<input type="text"/>

Restriction Type: Allowed
 Disallowed

Exposure Restrictions

+ - [List Icon]

Exposure Name	Exposure Description
<input type="text"/>	<input type="text"/>

Restriction Type: Allowed
 Disallowed

Ok Exit

2.14.5.1 Maintaining Customer Restrictions for a Line

To recall, you can assign a limit to a Line - Liability combination. A liability code can have several customers linked to it. By default, the line that you define is available to all customers linked to the liability code.

You can restrict the limit available under this line-liability combination to specific customers. If you are maintaining restrictions for the first time, the list of customers that are linked to a liability code is displayed under the Customers Allowed list (indicating that they are allowed to use the line). You can restrict a customer(s), from using the credit under a line by highlighting the code that identifies the customer and clicking on the 'Minus' button. You can remove the restrictions earlier imposed on a customer i.e., (allow a restricted customer usage of the limit under a line). To allow a restricted customer usage of a line, select the customer code from the list and click on the 'Plus' button.

2.14.5.2 Maintaining Branch Restrictions for a Line

You can restrict the usage of a credit line that you have defined to certain branches of your bank. When you invoke this screen for the first time and have not maintained branch restrictions for the line in the Limits template, a list of all the branches of your bank is displayed under the Branches Allowed list (indicating that all branches of your bank can use the line). From this list of allowed branches you can restrict a certain branch(s) from using the line.

If you have already specified branch restrictions for the line in the Limits Template, these restrictions will be defaulted here. You can modify the branch restrictions defaulted from the Limits Template.

You can disallow a branch(s) from using this line by selecting code that identifies the branch and clicking on the 'Minus' button. You can remove the restrictions earlier imposed on a branch i.e., to allow a restricted branch usage of the limit under this line. To allow a restricted branch usage of a line, select the code that identifies the branch from the option list and click on the 'Plus' button.

2.14.5.3 Maintaining Currency Restrictions for a Line

Just as you can restrict the limit defined for a line to specific customers, branches, and products, you can restrict it to specific currencies. From the option list available, choose the currencies to which you would like to restrict application. The list of currency codes you choose in this field will be described in the adjacent column.

If you have already specified currency restrictions for the line in the Limits Template, these restrictions will default here. You can modify these default restrictions to suit your requirement.

To remove a currency from the list of allowed currencies, highlight the currency code and click on the 'Minus' button. To add a currency to the list of allowed currencies, click on the 'Plus' button, and choose the currency from the option list available.

2.14.5.4 Maintaining Exposure Restrictions for a Line

You can also define the types of exposures that should be allowed (or disallowed) for a line. Based on the list you maintain, the system will display an error message if a utilization request with a transaction exposure is received where the exposure for the facility is either disallowed or not maintained as part of the allowed exposures.

Indicate if the exposure codes that you are specifying should be allowed or disallowed. From the option list available, select the exposure codes. The system defaults the description of the chosen exposure codes. To remove an exposure code from the list, highlight the code and click on the 'Minus' button. To add to the list, click on the 'Plus' button, and choose the exposure code from the option list available.

While saving the record, if the exposures disallowed here are found to be linked to existing Facility Exposures or Customer Liability Exposures, the system will display an error message and will not save the details.

2.14.5.5 Maintaining Product Restrictions for a Line

You can define the types of products that should be allowed or disallowed for a line. To add a product to the list of allowed products, click on the 'Plus' button and select the Source and Product Code from the adjoining option lists. The system defaults the description of the chosen source and product code.

The screenshot shows the 'Limit Restrictions' dialog box. At the top, there are two 'Disallowed' status indicators. The dialog is divided into four main sections: 'Customer Restrictions', 'Currency Restrictions', 'Branch Restrictions', and 'Product Restrictions'. Each section has a table with columns for identifying the restriction (e.g., Customer Number, Currency Code, Branch Code) and a 'Short Name'. Below each table is a 'Restriction Type' section with radio buttons for 'Allowed' and 'Disallowed'. The 'Disallowed' option is selected in all sections. The 'Product Restrictions' section has three columns: 'Source', 'Product Code', and 'Product Des'. At the bottom right, there are 'Ok' and 'Cancel' buttons.

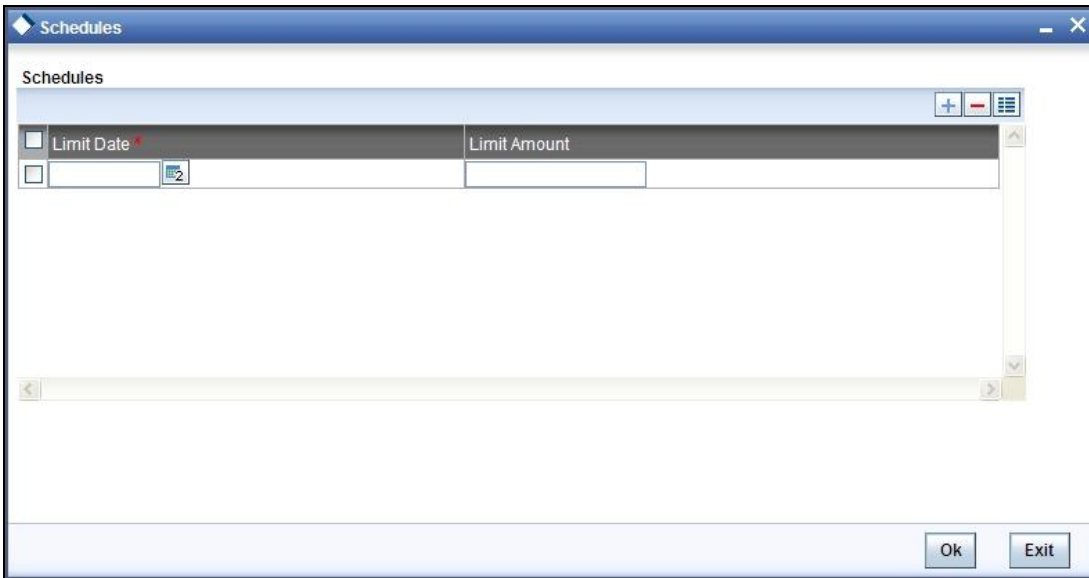
To remove a product from the list of Allowed Products, select the Product Code and click on the 'Minus' button.



System considers both the source and the product code to validate the restriction.

2.14.6 Maintaining Limit Schedules

The limit assigned to a customer under a revolving line can be reduced. You can define these details while maintaining limits for a customer. From the Limits Maintenance screen, click 'Schedules' button.



For a liability code and credit line combination, you can define limit schedules and indicate the limit that is applicable for the period. You can enter a negative limit amount. The limits maintained for a tenor are for information purposes. It will not become automatically effective to the line liability combination when the tenor begins. However, the 'Limit Date' should not be earlier than the 'Limit start date' and later than the 'Limit Expiry Date'.

The Facility batch which runs at BOD checks the limits schedule for a facility and if a schedule is due on the current date in the branch. If so, it updates the limit amount for the facility for which the schedule is due with the schedule limit amount.

Example

You have defined a limit schedule for a facility for your client ABC Corporation where the Limit Amount initially is USD 1 million and the start date for the facility is Jan 01, 2009. The schedule is as shown below:

Limit Date	Limit Amount
Feb 01, 2009	500000
Mar 02, 2009	800000
April 03, 2009	400000
May 04, 2009	900000

In this case, during BOD on Feb 01, 2009, the limit amount will be updated to USD 500,000 and on Mar 02, 2009 it will be modified again to USD 800,000. If the batch does not run on Mar 02, 2009, it will be run on Mar 03, 2009. Accordingly, the 'Scheduled Limit Amount' defined for Mar 02, 2009 Schedule will be updated as Facility Limit Amount.

During EOD, the system processes limits schedules and revision process takes place for the facilities as per the scheduled date. It processes the limit schedules till next working day and marks all the schedules till date as processed.

When the Facility Start Date and Schedule Date falls on the same day, then on save of Facility record, you will get an override message for confirmation on updating the limit amount of Facility as per the schedule amount.

While processing, if there are any errors or overrides, it should be logged. The following are the possible errors:

- Available amount is negative for the facility.
- The Tenor Limit Amount exceeds the Line Limit Amount.
- The amount cannot exceed the overall limit specified for the liability id.
- The Main Line Limit cannot be less than any of its Sub Line Limit.
- The Sub Line Limit cannot exceed the Main Line Limit.

Example

Assume the following:

- Liability - GROUPLIAB
- Line - SHTLLIMIT
- Serial - 1
- Start Date - 01-Jul-2009
- Limit Currency - USD
- Limit Amount - 50000

Schedules:

Limit Date	Limit Amount
15-Jul-2009	60000
28-Jul-2009	65000
30-Jul-2009	75000
15-Aug-2009	80000

- System Date - 14-Jul-2009
- Limit Amount - 50000

On 14-Jul-2009 EOD, limit revision process picks the 15-Jul-2009 schedule and update 60000 as limit amount. The revised limit is enforced or effective on 15-Jul-2009.

- System Date - 15-Jul-2009
- Limit Amount - 60000

Schedules:

Limit Date	Limit Amount
15-Jul-2009	60000
28-Jul-2009	65000
30-Jul-2009	75000
15-Aug-2009	80000

- System Date - 27-Jul-2009
- Limit Amount - 60000
- Next working Day - 30-Jul-2009

On 27-Jul-2009 EOD, the limit revision process picks 28-Jul-2009 and 30-Jul-2009 schedules and update 75000 as limit amount. The revised limit is enforced / effective on 30-Jul-2009.

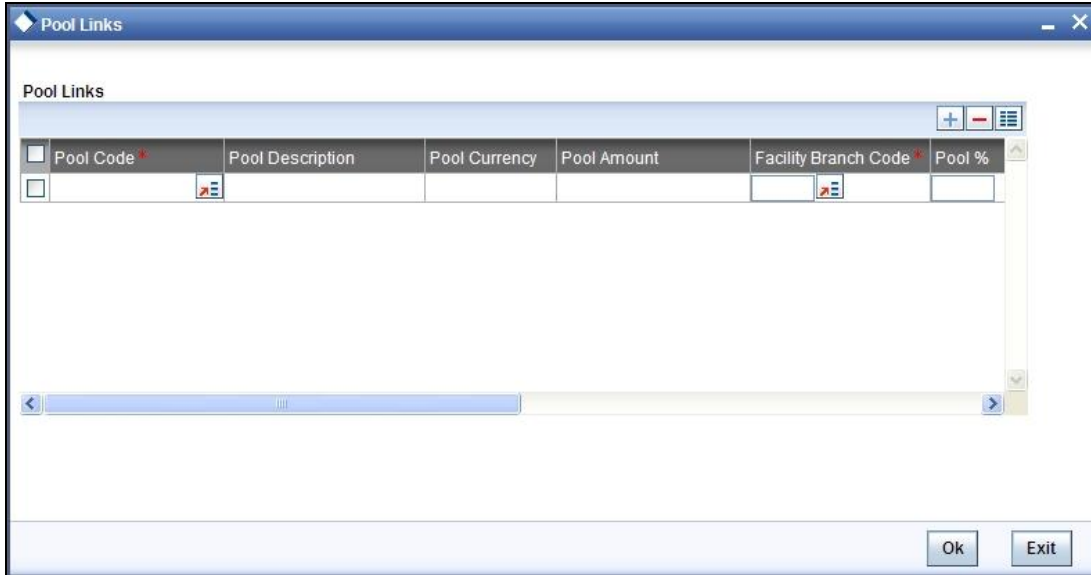
- System Date - 30-Jul-2009
- Limit Amount - 75000

Schedules:

Limit Date	Limit Amount
15-Jul-2009	60000
28-Jul-2009	65000
30-Jul-2009	75000
15-Aug-2009	80000

2.14.7 Maintaining Collateral Pool Linkages

For collateral Contribution in Total Effective line amount, the pool code maintained for that particular Liability id has to be linked, which can be achieved using this sub screen. From the Limits Maintenance screen, click on the 'Pool Links' button.



The screenshot shows a window titled "Pool Links" with a table. The table has the following columns: Pool Code, Pool Description, Pool Currency, Pool Amount, Facility Branch Code, and Pool %. There is a plus sign button next to the Pool Code column and a list icon next to the Facility Branch Code column. The table is currently empty.

Pool Code	Pool Description	Pool Currency	Pool Amount	Facility Branch Code	Pool %
-----------	------------------	---------------	-------------	----------------------	--------

The LOV button for pool code will display all the pool codes associated for that liability Id. On choosing a pool code the pool amount, pool description and the pool currency will get displayed.

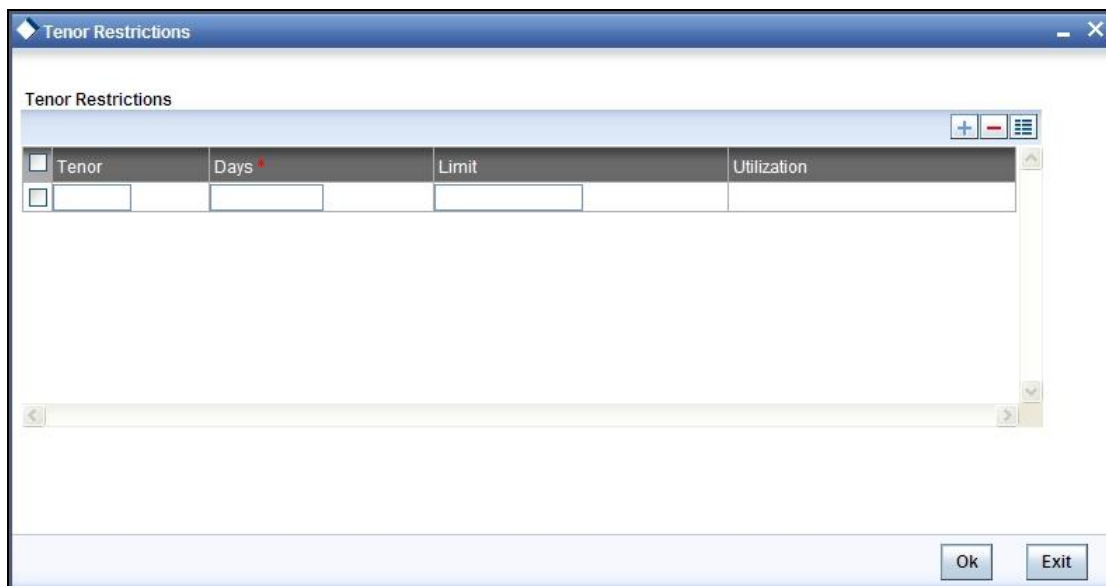
Pool Linkages multi entry block does two functions:

Firstly, on clicking 'Plus' button we can link one row of the available pool amount (i.e. Pool amount – Pool Utilized) to that a Line code for which the collateral contribution is required.

Secondly, it displays at all point in time the pool amount utilized by various Line Codes and Contracts.

2.14.8 Defining Tenor based Restrictions

You can define Limits based on the tenor of the contracts that utilize the limit. Click 'Tenor Restrictions' button from the Limits Maintenance Detailed screen to maintain Tenor restrictions for the limit you have specified for the Line-Liability combination.



The screenshot shows a window titled "Tenor Restrictions". Inside the window, there is a table with the following columns: Tenor, Days, Limit, and Utilization. The table is currently empty. There are also some control buttons (plus, minus, list) in the top right corner of the table area. At the bottom right of the window, there are "Ok" and "Exit" buttons.

You need to enter details in this screen only for transactions that involve a Tenor (e.g. Loans, Money market transactions etc). Through this screen you can specify a list of Tenors and the associated limit that tenor based transactions can utilize under this line.

2.14.8.1 Maintaining Tenor Restrictions for a Main Line

For a main line, you can:

- Specify the list of tenor restrictions for which you would like to limit your exposure.
- Assign limits for the Tenor restrictions.

2.14.8.2 Maintaining Tenor Restrictions for a Sub-Line

You can define a sub-line tenor list and also define limits for each of them. To recall, a sub-line falls under the umbrella of the Main Line to which it is linked. Therefore, the maximum tenor that you define for a sub-line should not exceed the maximum tenor defined for the main line to which it is linked. The limit amount that you define for each sub-line tenor cannot be higher than the tenor limit defined for the main line to which it is linked.

Tenors and limits can be placed at both the sub-line and main line levels. But the maximum tenor of a sub-line cannot exceed the maximum tenor defined for the main line to which it is linked.

Example

You define a Line LOANS and link it to the Liability Code CREATIVITY INC. (the Liability and the Customer Code in this case are the same). The limit set for this line - LOANS is \$ 1million.

Main Line Code
LOANS

You define a credit limit of \$ 1 million for Creativity Inc. under this Credit Line. You also specify the tenor Restrictions for the line to be the following 30D, 60D, and 90D.

Main Line Tenor List	Limit
30D	0.5M
60D	0.3M
90D	0.25M

The loans that this customer can avail can be further classified into Short, Medium and Long Term Loans.

For our example we shall make Short Term, Medium Term and Long Term loans as sub-lines under the Main Line Loans. It is only when you link these credit lines to the Credit Line Loans that it becomes a Main line.

Sub-line Code
STLOANS
MTLOANS
LTLOANS

You can define a tenor list and have tenor based limits for both the *Main Line* and *Sub-lines*. So we shall also maintain tenor based limits for the sub-line STLOANS (as shown in the table below):

Sub-line Tenor List	Limit
30D	0.3M
60D	0.2M
90D	0.1M

You can add to the list of tenors maintained for a Main Line by specifying the Tenor restriction under the head Tenor and clicking on the 'Plus' button. If you want to remove a tenor restriction from the list of tenor restrictions highlight it and click on the 'Minus' button.

2.14.9 Maintaining Source Restrictions

You can specify which sources are allowed or restricted to access the facility in 'Source Restrictions' screen. Click on 'Source Restrictions' button in 'Facilities Maintenance' screen to invoke this screen.

Source Restrictions

Restriction Type Allowed
 Disallowed

Ext System Restrictions

Source	Description
--------	-------------

Ok Exit

Restriction Type

To maintain an allowed list of liability restrictions choose the 'Allowed', option. To maintain a disallowed list of liability restrictions, choose the 'Disallowed' option.

Default value of this field will be 'Disallowed'. If you select restriction type as 'allowed', then you will have to input at least one record.

Source

Specify the source from the adjoining option list.

Description

Give a brief description about the System restriction here.

2.14.10 Capturing UDE Details

To capture the UDE details, click 'UDE Details' button.

UDE Id	UDE Value	Rate Code	Code Usage	Effective Date

You need to capture the following details here:

Commitment Branch

Specify the branch in which the commitment contract needs to be created. By default, it will be the same branch in which the facility has been created.

Commitment Product

Specify the product details of the commitment.

Commitment Settlement Branch

Specify the settlement branch details of the commitment.

Commitment Settlement Account

Specify the settlement account details of the commitment.

UDE ID

Specify the UDE ID of the commitment.

UDE Value


Specify the UDE value of the commitment.

Rate Code

Specify the rate code of the commitment.

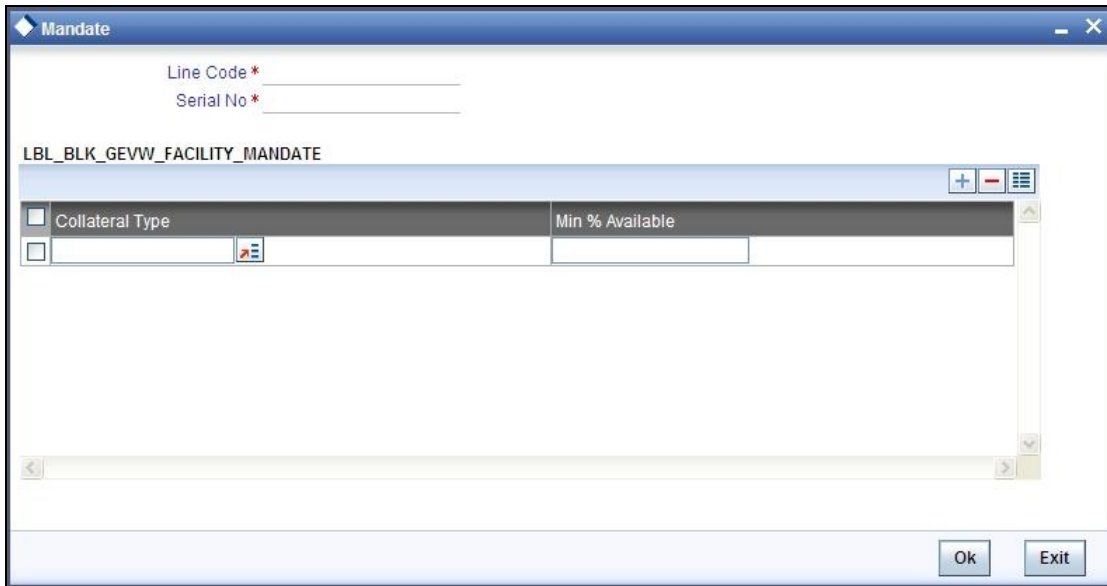
Code Usage

Specify the code usage of the commitment.

 You can use the above UDE details to upload commitment details to Oracle FLEXCUBE as a part of facility maintenance. While uploading the commitment details, you need to use the batch 'ELBCOMNT', which is configured as part of EOD process.

2.14.11 Maintaining Mandate Details

You can maintain mandate information for specific line codes using 'Mandate' screen. Click 'Mandate' button on 'Facility Maintenance' screen.



Collateral Type	Min % Available

You can specify the following details here:

Line Code

Specify the line code for which the mandate has to be maintained. The system displays the line code from the main screen of facility.

Serial Number

The system displays the line serial number of the line code maintained.

Mandate

Collateral Type

Specify the collateral type required for validating mandate for the utilization transaction. The option list displays all valid collateral types maintained in the system. Choose the appropriate one.

You can add more rows to the list using add button.

Minimum % Available

Specify the minimum percentage of cash collateral to be collected while processing the utilization transaction against the line code specified.

The system verifies whether the mandate percentage of the line utilization amount is greater than the collateral limit contribution. If the mandate percentage is higher, the system displays an override message. You may choose to continue or cancel the maintenance.

2.14.12 Including Netting Amount in Facility's Available Amount

You can set the available amount under a Facility to include the Netting Amount too. To enable this feature you must check the 'Netting Required' check box in the following levels:

- Account Netting level
- Liability level
- Facility level

Once the netting option is enabled in the above levels the Netting amount maintained as a part of Account Netting screen will be added to the available amount of the facility in facility currency. The netting amount field in the facility screen will be added with the new netting amount in facility currency.

Account Netting

When you authorise an account netting transaction with contract type 'AC' and netting enabled, then the netting amount will be included in the facility in facility currency. Here both the Available Amount and the Netting Amount will be updated accordingly.

When you modify an Account Netting Record and un-check the Netting check box, then the system will automatically subtract the netting amount from the Available Amount and the Netting Amount for the corresponding facility

When you modify an Account Netting Record and check the Netting check box, then the system will automatically add the netting amount to the Available Amount and the Netting amount for the corresponding facility.

When an Account Netting Record is closed and authorised, the system will automatically subtract the netting amount from Available Amount and the Netting Amount for the corresponding facility.

When an Account Netting Record is re-opened and authorised, the system should automatically add the netting amount to Available Amount and the Netting Amount for the corresponding facility.

Facility

When the Netting option is un-checked and the modification is authorised, the system will automatically set the netting amount to zero and recalculate the available amount. Likewise, when the netting option is enabled, the system will update the netting amount based on all the Account Nettings which have Netting option enabled for the facility.

Liability

When the Netting option is un-checked and the modification is authorised, the system will automatically set the netting amount of all its facilities to zero and recalculate the available amount. Similarly when the netting option is enabled the system will update the netting amount based on all the Facilities and Account Nettings records, which have Netting option enabled for the liability.

2.14.13 Viewing Previous Credit Limit Changes

You can view previous changes made to the credit limit using the 'Facilities Summary' screen. You can invoke this screen by typing 'GESQYFAC' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Summary". At the top, there are two dropdown menus: "Authorization Status" and "Record Status". Below these are two columns of input fields, each with a small icon to its right. The left column includes: "Modification Number", "Serial No", "Line Currency", "Limit Amount", "Utilisation", "Available", and "Expiry Date". The right column includes: "Line Code", "Liability No", "Eff.Line Amount Basis", "Effective Line Amount", "Available Amount", "Line Start Date", and "Id". Below the input fields are three buttons: "Search", "Advanced Search", and "Reset". A status bar at the bottom of the window shows "Records per page 15" and "1 Of 1". Below the status bar is a table header with the following columns: "Authorization Status", "Record Status", "Modification Number", "Line Code", "Serial No", "Liability No", "Line Currency", "Eff.Line Amount Basis", "Limit Am". At the bottom of the window, there are two text boxes for legend information: "Authorization Status A - Authorized U - Unauthorized" and "Record Status C - Closed O - Open". An "Exit" button is located in the bottom right corner.

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

- Authorization Status
- Mod No
- Serial No
- Line Currency
- Limit Amount
- Utilisation
- Avl Flag
- Expiry Date
- Record Status
- Line Code

- Liability No
- Eff. Line Amount Basis
- Eff Line Amount
- Available Amount
- Start Date
- ID

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

- Authorization Status
- Record Status
- Mod No
- Line Code
- Serial No
- Liability No
- Line Currency
- Eff. Line Amount Basis
- Limit Amount
- Eff, Line Amount
- Utilisation
- Available Amount
- Avl Flg
- Start Date
- Expiry Date
- ID

To view any previous changes made to the credit limit, double-click the corresponding record. A detailed screen appears containing changes made.

Facilities Summary Detailed

Liability Id * E03000115
 Line Code * E03000115
 Serial No * 1
 Description E03000115
 Main Line Code
 Line Currency GBP
 Category
 Internal Remarks
 User Define Status
 User Define Status Changed Date

Revolving Line
 Netting Required
 Unadvised
 Funded
 Shadow Limit
 Bulk PMT Required

Availability
 Availability Flag
 Line Start Date 2007-11-27
 Expiry Date 2009-11-30

- Amounts
 Limit Amount 200,000.00
 Collateral Amount 0.00
 Transfer Amount 0.00
 DSP Eff Line Amount 200,000.00
 Eff Line Amount Basis
 Limit Amount - Collateral Contribution
 Uncollected Amount
 Block Amount 0.00
 Approved Amount 200,000.00
 Day Light Limit 0.00
 Day Light OD Limit 0.00

- Utilization
 Available Amount 200,000.00
 Date Of First OD
 Date Of Last OD
 Amount Utilised Today 0.00
 Utilization Amount 0.00
 Tanked Utilization 0.00
 Netting Amount 0.00

- Exception
 Exception Transaction Amount
 Exception Breach

- I RI INT FFF RFOD
 Limit Restrictions Tenor Restriction Schedules Value Dates Charges Covenants Pool Links Exposers UDE Details
 Status Log Fields

Input By A27208M01 Date Time 2008-01-31 00:00:00 Modification Number 4 Authorized
 Authorized By A27208A01 Date Time 2008-01-31 00:00:00 Open **Exit**

STOP This is a view-only screen hence you cannot make any modifications in this screen.

2.15 Track Exposure Maintenance

Maintenances for exposure tracking can be done via the 'Track Exposure Maintenance' screen. This screen not only allows tracking, but also allows you to define a limit for a particular exposure. This means that when the utilization exceeds the limit, you will have to provide a confirmation for process to proceed.

You can invoke the 'Track Exposure Maintenance' screen by typing 'GEDTREXP' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Exposure Name

Specify the Exposure name. The name maintained in this screen has to be linked in the customer screen to make tracking effective.

It is possible to track a customer in multiple exposures. For this multiple exposure names should be linked to the customer.

Exposure Description

Provide a brief description of the exposure here.

Exposure Type

Specify what kind of exposure it is. The exposure types will be as maintained in the Static Maintenance screen.

Utilization Type

Indicate whether exposure is linked with customer or transaction.

As part of utilization, a maximum of five exposures can be linked to customer and another five exposures can be linked to a facility.

Revolving

Check this box if the exposure is a revolving exposure. This implies that each time a repayment is made (revolving amount) against the exposure, the available limit for the exposure is increased by the amount of repayment. In case of non-revolving exposure, the available limit is the amount of exposure reduced by the loans already availed by the customer (if any); repayment does not increase the limit.

This can be denoted in terms of utilized amounts as follows:

For revolving exposure: $\text{New Exposure utilization} = \text{Exposure utilization} - \text{Revolving amount}$

For non-revolving exposure: $\text{New Exposure utilization} = \text{Exposure utilization}$

Exposure Currency

Specify the currency in which the Tracking of Exposure has to be maintained. Once authorized, this field will be non-amendable.

Exposure Amount

Specify the exposure limit amount which is to be maintained for each exposure tracking maintenance. A confirmation will be sought during utilization when the utilization amount crosses the exposure amount.

Exposure Block Amount

The value of the 'Block Amount' field in the 'Block Exposure Maintenance' screen is displayed here.

Exposure Effective Date

Specify the effective date after which the maintained exposure becomes valid or applicable.

Exposure Renewal Date

Specify the exposure Renewal date. This is only for information purposes.

Exposure Expiry Date

Specify the expiry date after which the maintained exposure is not applicable for tracking.

Freeze

Select this check box to indicate that the exposure will be frozen and during utilization. Exposure tracking will not be allowed for such an exposure (i.e. Utilization under such exposures will not be allowed).

Exposure Rating

Specify the rating of the exposure (e.g. Sovereign rating). This is only for information purposes.

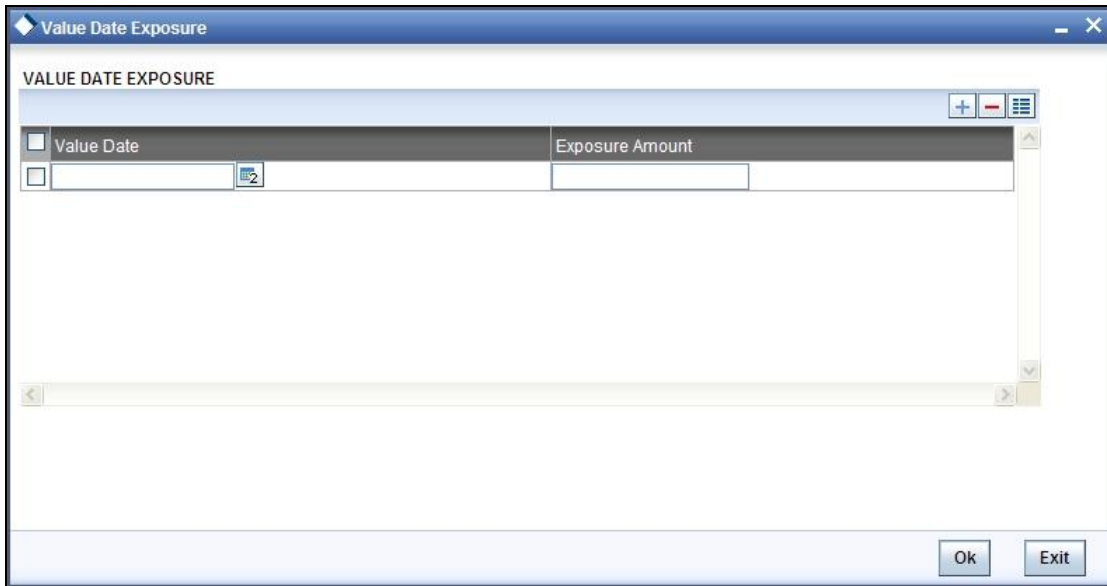
Exposure Available Amount

This is the limit amount that is considered when processing utilization requests for an exposure. It is the amount available after taking into account previous utilizations and amount block (earmark) in force for an exposure. It is calculated as shown below:

Exposure Available Amount = Exposure Limit Amount – Utilization – Exposure block amount

2.15.1 Maintaining Value Date Exposure Details

Value dated limits for a particular facility can be specified using the Value Date Exposure details screen. Click 'Value Date Exposure' to invoke this screen.



For each record added here you must specify the following:

- Exposure Amount - The value dated Exposure amount
- Value Date - The value date post which the mentioned amount is valid

2.15.2 Viewing Exposure Records

You can view exposure details using the 'Exposure Query' screen. You can invoke this screen by typing 'GESQEXPD' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

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

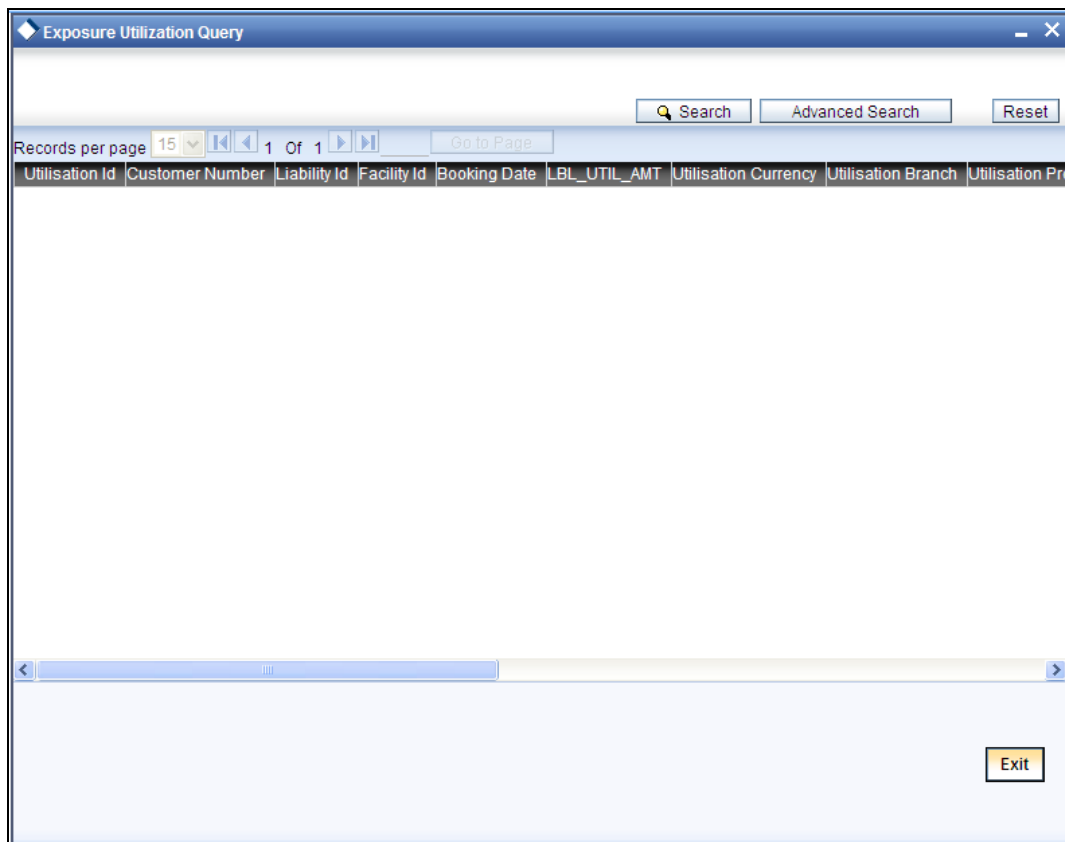
- Exposure Name
- Exposure Amount
- Exposure Currency
- Exposure Type

Click 'Search' button. The system identifies all records satisfying the specified criteria and displays the following details for each exposure:

- Id
- Exposure Name
- Exposure Currency
- Exposure Amount
- Exposure Type
- Tracking type
- Utilization
- Exposure Effective Date
- Exposure Expiry Date
- Exposure Freeze Type
- Exposure Rating
- Auth Status
- Mod Number

- Revolving Type
- Available Amount
- Revolving Amount
- Block Amount

Select particular record and click on 'Utilization Details' button to open the 'Utilization Details' screen. You can invoke this screen by typing 'GESQEXPU' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



2.16 Account/Contract Balance Maintenance for Netting

To pool balances across accounts/contracts for netting, account/contract balance information has to be maintained. You can perform this maintenance in the 'Account/Contract Balance for Netting' screen.

You can invoke the 'Account/Contract Balance for Netting' screen by typing 'GEDACCNT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Account/Contract Balance For Netting". It features a list of input fields for data entry:

- Reference Number*
- Customer Number
- Currency*
- Amount
- Value Date
- Booking Date
- Expiry Date
- Liability Number*
- Line Code
- Serial Number
- Contract Type

Below the main fields, there is a "Fields" section with a "Netting Required" checkbox. At the bottom of the window, there are fields for "Input By Date Time", "Authorized By Date Time", and "Modification Number", along with checkboxes for "Authorized" and "Open", and an "Exit" button.

Reference Number

Specify the reference number, which is the account number or the contract reference number for which the balance has to be considered.

Contract Type

The 'Contract Type' field will show 'AC' by default for the account netting facility. In this case you must also define the facility code (Line Code) to which the netting amount is to be added.

If the account is a Term Deposit account which you wish to link as collateral to a collateral pool, then specify a Contract Type other than 'AC'. Here you need not specify the facility code.

For more details on linking Term Deposit accounts/contracts as collaterals, refer the section 'Collaterals Maintenance'.

Liability Number

Specify the liability number to which the Reference number is linked.

Customer Number

Specify the customer number to which the Reference number belongs to.

Line Code

Specify the line code for the account/contract.

Currency

Specify the currency based on which the balance amount of the account/contact has to be considered. Once authorized, this entry will be non-amendable.

Amount

Specify the account/contract balance amount for netting.

Booking Date

Specify the booking date when the account/contract was created.

Value Date

Specify the date from when this account/contract is valid for netting.

Expiry date

Specify the date till when this account/contract is valid for netting.

Netting Required

Select this check box to indicate that all facility amounts linked to the liability should be consolidated.

You can set the available amount under a Facility to include the Netting Amount too. For more details on this feature, refer the section 'Including Netting Amount in Facility's Available Amount' in this document.

2.17 Ear Marking Maintenance

You can use the 'Ear Marking Maintenance' screen for blocking of funds for a Facility.

You can invoke the 'Ear Marking Maintenance' screen by typing 'GEDBLOCK' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'EAR Marking Maintenance' window with the following fields and controls:

- Block Number *
- Branch *
- Liability Code *
- Customer Number *
- Line Code *
- Serial No
- Block Currency *
- Block Amount
- Effective Date
- Expiry Date
- Auto Block
- Remarks

Fields section:

- Input By Date Time
- Authorized By Date Time
- Modification Number
- Authorized
- Open
- Exit

Block Number

Specify the unique number which is to be assigned for every block that has been created.

Branch

Specify the branch in which the block has been created.

Liability Code

Specify the liability code for which the amount block is to be done.

Customer Number

Specify the customer for whom the amount block is to be done.

Line Code

Specify the Line code for which the amount block is to be done.

Block Currency

Specify the currency based on which the Block amount for the facility has to be considered. Once authorized, this entry will be non-amendable.

Block Amount

Specify the amount to be blocked for ear marking.

Effective Date

Specify the date from when this block amount for that facility becomes effective.

Expiry Date

Specify the date till when this block amount for that facility is applicable.

2.18 Global Block Exposure Maintenance

You can block (earmark) a certain amount of an exposure limit using the 'Global Block Exposure Maintenance' screen. You can invoke the 'Global Exposure Block Maintenance' screen by typing 'GEDEXPBL' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Global Exposure Block Maintenance". The window contains several input fields and a checkbox. The fields are: "Block No *", "Branch *", "Exposure Name *", "Exposure Description", "Block Currency *", "Block Amount *", "Effective Date", "Expiry Date", "Customer Number", "Liability Number", "Remarks", "Line Code", and "Line Serial". There is also an "Auto Block" checkbox. At the bottom of the window, there is a "Fields" section with "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.

Block Number

Specify a unique number for the block you are creating. The system will not allow you to modify it after authorization of the maintenance.

Branch

The current branch is displayed here. You can change it to a branch that you require. You cannot change the branch after authorization of the maintenance.

Exposure Name

Specify the exposure code for which the amount block is to be done. The adjoining option list contains all the relevant codes. Select the appropriate one.

Description

The system defaults the exposure description here.

Block Currency

Specify the currency in which the amount block is to be applied. You cannot modify this once the maintenance has been authorized.

Block Amount

Specify the amount to be earmarked. This amount is deducted from the existing utilization of an exposure before additional utilization requests are processed.



It is also updated as the 'Exposure Block Amount' in the 'Track Exposure Maintenance' screen.

Effective Date

This is the date from which the amount block should be applied for the exposure. The system defaults the current branch date. You can however change it.

Expiry Date

This is the date till which the amount block for the exposure is enforced.

Auto Block

The system automatically checks this option on the date the block on the exposure comes into force i.e. the 'Effective Date'.

2.18.1 Additional Information

As part of additional information for the exposure, you can capture the following details:

- Customer Number
- Liability Number
- Remarks
- Facility Code

The system displays the 'Serial Number'.

2.19 Exception Queue Maintenance

You can maintain exception queue records with their respective transaction authorizer details in the 'Exception Queue Maintenance' screen.

You can invoke the 'Exception Queue Maintenance' screen by typing 'GEDQUEMN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Queue Name

Specify the Queue Name.

Description

Give a brief description of the queue here.

Queue Details

Here you can specify multiple user roles for a Queue name. For each record you must specify the following:

- Role Name – User role allowed for authorization
- Role Description

2.20 Transaction Authorize Maintenance

As a part of BEPL process for Credit Exception management, the Transaction authorizer details and breached authorizer details can be entered in the 'Transaction Authorize Maintenance' screen.

You can invoke the 'Transaction Authorize Maintenance' screen by typing 'GEDTAUTH' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The transaction authorizer queue first checks for authorizers maintained for that particular branch and category during a utilization transaction for that branch. If no authorizers are maintained for that branch then a default authorizer will be assigned to all branches.

The Default Authorizer details will be used for processing Credit Exception management.

Branch Code

Specify the branch for which the maintenance is being done.

Category

Specify the category of the branch here.

Transaction Details

Here for each record you can specify the following:

- Queue Name – Specifying this will in turn fetch all the user roles attached to the queue name. During utilization transaction users having these roles will have to perform the authorization for the corresponding amount range.
- From Amount and To Amount – For specifying the amount range

Breached Details

Here for each record you can specify the following:

- Queue Name – Specifying this will in turn fetch all the user roles attached to the queue name. During utilization transaction users having these roles will have to perform the authorization on Breached Transaction amount blocks.
- From Amount and To Amount – For specifying the amount range to define the block of amount

2.21 Limits & Collaterals Parameter Details

You can specify certain parameters relating to the End Of Day operations in the 'Limits & Collaterals Parameter Details' screen.

You can invoke the 'Global Exposure Parameter Details' screen by typing 'GEDPARAM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'GEMS Parameter Maintenance' window with the following parameters and values:

Parameter	Value / Option
Maximum No of Processes	1
Rate Type	STANDARD
Currency System	
CRM System	
Maximum Retry Lock Transaction	5
System Makerid *	
System Checkerid *	
Auto CNR	<input type="checkbox"/>
Exposure Tracking	<input type="checkbox"/>
Generate Customer Number	<input type="checkbox"/>
Customer Mask	
Reevaluate Currency Online	<input checked="" type="radio"/> Batch <input type="radio"/> Online
Reevaluate Market Online	<input checked="" type="radio"/> Batch <input type="radio"/> Online
Rate Range	<input checked="" type="radio"/> Mid Rate <input type="radio"/> Buy Rate <input type="radio"/> Sell Rate
Holiday Treatment	<input type="radio"/> System Date <input type="radio"/> Next Working Day
UPD Utils	<input checked="" type="radio"/> Batch <input type="radio"/> Online
Block Facility on Status	<input type="radio"/> Yes <input type="radio"/> No

Fields:

Field	Value
Input By	
Date Time	
Authorized By	
Date Time	
Modification Number	
Authorized	<input type="checkbox"/>
Open	<input type="checkbox"/>

Exit button is present.

The following details are maintained here.

System Maker ID and System Checker ID

During the processing of user entries, if the maker ID and checker ID is not mentioned, then IDs specified here will be recorded.

Maximum Retry Lock Transaction

Specify the number of times authorization can be tried before the transaction is locked.

Maximum Number of Processes

Multi Treading feature in Oracle FLEXCUBE ELCM can be controlled by specifying the max number of processes here. In case of load balancer during End Of Day batch operations the maximum process for load sharing can be specified using this field.

Rate Type

Specify the rate type that has to be considered for all amount conversions in Oracle FLEXCUBE ELCM.

Currency System

Specify the external currency system if the Bank is using a external currency system other than the one provided in Oracle FLEXCUBE ELCM.

CRM System

Specify the external CRM system if the Bank is using an external CRM system other than the one provided in Oracle FLEXCUBE ELCM.

Generate Customer Number

Check this box to generate the customer number automatically at the time of customer creation and customer replication from the Oracle FLEXCUBE as per the specified customer mask.

Customer Mask

If you have selected 'Generate Customer Number' option, you need to specify the customer mask.

The customer mask will be maximum nine characters length, out of which it is mandatory to use three characters from the branch code of the customer number and the rest six can be numbers. E.g. bbbnnnnnn. If branch code is not part of customer mask, then maximum characters of number digit will be nine else it would be six characters and minimum characters of number digit would be four. E.g. nnnnnnnnn.

If the customer number is less than nine digits, then the system will left pad it with '0' i.e zero.



Character 'b' indicates the branch code and character 'n' indicates number digits.

Revaluate Currency Online

Indicate whether the currency revaluation should be an online or a Batch (EOD) process. Revaluation of the line amount takes place online if the parameter is set to online.

Revaluate Market Online

Indicate whether Market price revaluation should be Online or Batch. Market price based security Revaluation takes place online if the parameter is set to online.

UPD Utils

Specify whether Value date utilization updating can be Online or Batch. Value date updating takes place online if the parameter is set to online.

Block Facility on Status

Indicate whether, depending on the worst status of a liability, the EOD process should block the facility or not.

Rate Range

Specify the rate - Mid Rate, Buy rate, Sell rate - which has to be considered during all Conversion Amount calculations in Oracle FLEXCUBE ELCM.

Batch Process

Indicate whether the EOD Batch Process should be set up as part of the Database Server or the Application Server. Application server is the recommended choice.

Holiday Treatment

The revaluation process for the securities, collaterals and covenants may fall on a bank holiday. You can specify which of the following actions must be taken in such cases:

- System Date – Choose this to indicate that only collaterals with a Reval Date prior to or same as the system date will be considered for revaluation.
- Next Working Date -1 – Choose this to indicate that all the collaterals with the Reval Date prior to or same as the day before the next working date will be considered.

Auto Closure of Non Revolving Line

Check this box to close the non-revolving limit automatically on expiry date.

The EOD process closes all the active non-revolving limits automatically based on the value of 'Auto Closure Non Revolving Line'.

Example

Limits:

Facility	Expiry Date	Revolving
FACILITY1	15-Jul-2009	N
FACILITY2	16-Jul-2009	Y
FACILITY3	16-Jul-2009	N
FACILITY4	15-Aug-2009	N

- System Date - 15-Jul-2009
- Next Working Day - 17-Jul-2009

On 15-Jul-2009 EOD, the system closes FACILITY1 and FACILITY3.



This process does not close the following limits:

- If there are any underlying active transactions on that limit
- If there are any active sub lines reporting to this main line

If limit is not closed due to the above exceptions then the system logs the same into an exception table 'GETB_EXCEPTION_LOG'. If particular limit is not closed on expiry date due to the above exception then same limit is taken up for auto closure process on next EOD.

2.22 Facilities Amount Transfer Maintenance

Transfer of full or partial limit amounts from one facility to other within or across liabilities for certain periods is possible. It is also possible to close/cancel this transfer operation before a specified End Date.

Upon manual closure/cancellation or on automatic expiry, the system will transfer the transferred amount back to the original line.

For the above functionality you must do the following maintenances.

Limit transfer details can be defined through the 'Facilities Amount Transfer Maintenance' screen. You can invoke the 'Facilities Amount Transfer Maintenance' screen by typing 'GEDTRANS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a 'Login Page' window with a form for 'Facilities Amount Transfer Maintenance'. The form is organized into several sections:

- Branch:** A text field.
- Transfer Ref.No.:** A text field with an asterisk.
- From Liability Details:** A group of fields including 'From Liability Number*', 'From Liability Name', 'From Line Code*', 'From Line Serial', 'From Facility Currency', 'From Facility Amount', 'From Facility Available Amount', 'From Facility Start Date', and 'From Facility End Date'. Each field has a small icon to its right.
- To Liability Details:** A group of fields including 'To Liability Number*', 'To Liability Name', 'To Line Code*', 'To Line Serial', 'To Facility Currency', 'To Facility Amount', 'To Facility Available Amount', 'To Facility Start Date', and 'To Facility End Date'. Each field has a small icon to its right.
- Transfer Amount:** A group of fields including 'Transfer Amount*', 'Effective From Date*', 'Effective To Date', 'Expiry Status', 'Source', 'User Reference Number', and 'Remarks'. Each field has a small icon to its right.
- Fields:** A section at the bottom with checkboxes for 'Authorized' and 'Open', and an 'Exit' button.

From Liability Number and To Liability Number

Specify the 'From Liability No' i.e. for whom the limit amount is to be transferred

Specify the 'To Liability No' i.e. to whom the liability amount is allocated.

From Liability Name and To Liability Name

Specify the names of the respective Liabilities here

From Line and To Line

Specify the 'From Line' i.e. the Line from which the line amount is transferred.

Specify the 'To Line' i.e. the Line to which the line amount is transferred to for a specified period.

From and To Facility Currencies

For effective line transfer from one line to another, the currency of both the lines has to be the same.

From Facility Start Date and End Date

Specify the Start Date for line transfer when the allocation of certain portion or full amount becomes effective.

Specify the Expiry Date of the line transfer from the 'From Line'.

To Facility Start Date and End Date

Specify the Start Date for line transfer when the allocation of certain portion or full amount becomes effective.

Specify the Expiry Date of the line transfer to the 'To Line'.

From Facility Available Amount and To Available Amount

Specify the available amount for the To Line from the From Facility.

Specify the limit of the transferred amount allowed to the To Facility.

Effective From Date and Effective To Date

The Effective From Date of transfer is defaulted to the application date and is allowed for modification only during contract amendment.

Specify the Effective To Date of transfer i.e. the date till when the transfer of limits will be effective. This date must be greater than the Effective From Date

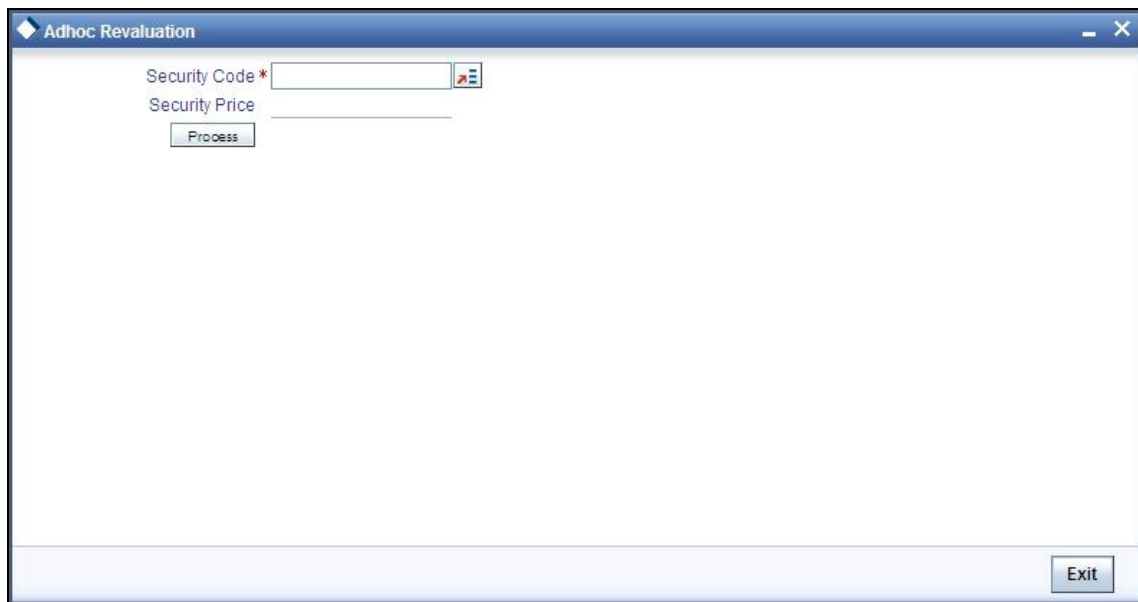
Transfer Amount

Specify the transfer amount to be transferred, from the From Liability, from the Effective Date onwards.

2.23 Force Collateral Revaluation

You can run the ad hoc revaluation process for market based collaterals using the 'Ad Hoc Revaluation' screen. For such collateral values to be revised, an input file containing the latest security prices must be given to the system before using this facility.

You can invoke the 'Adhoc Revaluation' screen by typing 'GEDADREV' 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 "Adhoc Revaluation" with a blue header bar. Inside the window, there are two input fields: "Security Code *" and "Security Price". The "Security Code *" field has a small icon to its right. Below the "Security Code *" field is a "Process" button. At the bottom right corner of the window, there is an "Exit" button.

Specify the Security Code for revaluation. Then click 'Process'.

2.24 Multi Authorization Maintenance

Multi authorisation maintenance can be done via the 'Multi Authorisation Maintenance' screen.

You can invoke the 'Multi Authorization Maintenance' screen by typing 'GEDDAUTH' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Whenever Utilization Transactions has been breached then the utilization transaction would require multiple authorizations. Transactions which are breached could be either authorized using BPEL process flow Credit Exception management or using UI multi Auth screen.



During implementation either the BPEL process needs to be used or the screen here needs to be used. Both can't be used at the same time

Whenever utilization transaction has been breached this screen has to be used by the authorizer to either Accept or Reject the breached transaction. The following fields mentioned below indicate all the values that will associated with the transaction. The fields are all display fields and cannot be edited for a transaction using this screen. Only Accept or Reject for authorization of the breached transaction is allowed.

SL No

Indicates the Oracle FLEXCUBE ELCM generated unique identifier for the transaction.

Utilization Reference Number

Specifies the Oracle FLEXCUBE ELCM utilization reference number.

Customer Number

Specifies the Customer Number of the utilization transaction. Customer Number entered should be valid Customer Number in Oracle FLEXCUBE ELCM system.

Transaction Date

Indicates the date and time when the transaction was entered in the external system.

Utilization Amount

Indicates the Utilization Amount.

Utilization Currency

Indicates the currency of the utilization transaction. Currency code entered should be a valid currency code in Oracle FLEXCUBE ELCM system.

Liability Number

Specifies the Liability Number of the utilization transaction. Liability Number entered should be valid Liability Number in Oracle FLEXCUBE ELCM system.

Line Code

Specifies the Facility Code of the utilization transaction. Facility Code entered should be valid Facility Code in Oracle FLEXCUBE ELCM system.

Serial Number

Specifies the Facility Serial number of the utilization transaction.

Facility Currency

Specifies the Facility currency.

Facility utilization

Indicates the Facility utilization amount.

Utilization Amount

Indicates the Utilization Amount.

Utilization Branch

Indicates the transaction branch.

Utilization Product

Indicates External product code of the utilization transaction.

Value Date

Specifies the Value date of the transaction. If value is not passed then system will default to Oracle FLEXCUBE ELCM present branch date.

Source

Indicates the product processor name from where the transaction has been originated. This field will be as part of Header section (Source Code)

Utilization status

Indicates the utilization status, possible values are A-Active, R-Reverse, L- Liquated

Delete

Indicates whether the transaction is deleted or not. If the check box is selected then it is deleted.

Liability Currency

Specifies the Liability currency.

Liability utilization

Indicates the Liability utilization amount.

Exception Queue

Specifies the exception queue in which transaction has been parked.

Error Code

Specifies the Error code of the transaction.

Error parameter

Specifies the Error parameters associated to the transaction.

Remarks

You can enter your remarks associated with the transaction.

2.25 Dual Authorization of Utilization Transaction

During Utilization Transaction process if the utilization amount crosses the breach amount specified, then the transaction requires dual authorization. You have to perform dual authorization of utilization related transactions in ELCM only. You can specify the facility maintenance breach amount and breach percentage in ELCM.

When the transaction amount inputted is more than breach amount or percentage, during utilization process ELCM would flag dual authorized indicator and updates the dual authorization error code as part of response. If response from the ELCM contains dual authorization error code, then Oracle FLEXCUBE logs the transaction details in dual authorization tables and processes it completely.

The authorization for the breached (dual auth) transactions will be authorized using function ID 'GEDDAUTH' of ELCM.

However till the dual authorization happens Oracle FLEXCUBE does not allow you to authorize the main transaction. You can also perform dual authorization using Oracle FLEXCUBE screen, but system performs certain validations to ensure that Oracle FLEXCUBE does not authorize the ELCM breach transactions.

Example

Assume that for liability 'TATA' line 'TATABILL' is created with below details.

- Limit amount - 10,000.00
- Collateral amount - 0.00
- Breach percentage - 110 (which is equal to 11,000)
- Brach amount - 15,000

The system calculated values:

- Available amount - 10,000.00
- Utilized amount - 0

Assume that as part of BC, a contact line 'TATABILL' is linked. As part of the contact data input, when you link the line 'TATABILL' and press 'Save' button during transaction processing in ELCM, if the transaction requires dual authorization then the system displays this information to the user.

Till the dual authorization error code (breached transaction) is authorized in ELCM, Oracle FLEXCUBE does not allow the contact to be authorized. In case, if the breached transaction is rejected, then you have to delete the contact Information irrespective of whether the error code has been authorized or not be viewed using Oracle FLEXCUBE function 'OVDAUDET'.

If you delete the dual authorization contact in Oracle FLEXCUBE, then the system deletes the contact details in Oracle FLEXCUBE and ELCM will delete the utilization ELCM.



ELCM deletes the utilization transaction if any dual authorization error is not authorized and the system updates the status as 'Ignored' so that this information is not shown to the user. However if the error code is authorized, then this information is ignored.

2.26 Merging Liabilities

You can merge any two liabilities existing in the system into one single liability. Oracle FLEXCUBE ELCM allows you to merge one liability into another. Upon merger, both liabilities will assume the same liability code. The structure of the liabilities will not change.

The merging of liabilities is done in the following two steps:

- Step 1 – Liability Merger Maintenance
- Step 2 – Liability Merger Process

The above steps are described in the sections below.

2.26.1 Liability Merger Maintenance

You must first maintain the details of liabilities to be merged using the 'Liability Merger Maintenance' screen. You can invoke the 'Liability Merger Maintenance' screen by typing 'GEDMERGE' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Liability Merger Maintenance

Branch Code _____

From Liability Code * _____

To Liability Code * _____

Effective Date _____

Remarks _____

Customer Link Merger Log Collateral Merger Log Collateral Pool Merger Log Netting Merger Log Facility Merger Log

Transfer Merger Log EarMarking Merger Log Utilization Merger Log

Input By _____ Authorized By _____ Modification _____
Date Time Date Time Number

Authorized
 Open

Exit

In the above screen you must maintain the following details for merger of two liabilities.

From Liability Code

Specify using the adjoining list of options the code of the liability which is to be merged into another liability.

To Liability Code

Specify using the adjoining list of options the code of the liability into which the liability specified under 'From Liability Code' must be merged into.

Branch Code

Specifies the branch code of the liabilities.

Effective Date

Specify the date from which the merger of liabilities must take effect.

Once you have maintained the above merger details, you must initiate the Merger Batch Process using an Intra Day Process so as to complete the merger. During this batch process all liability IDs for all the related maintenances will be modified. These include the following maintenances:

- Liability Customer
- Collateral
- Collateral Pool

- Facility
- Netting
- Facility Transfer
- Ear Marking

Upon merger, all the Utilizations will to point at the new liability. The liability utilization will then be moved from the old liability to the new liability and the old liability will be closed.

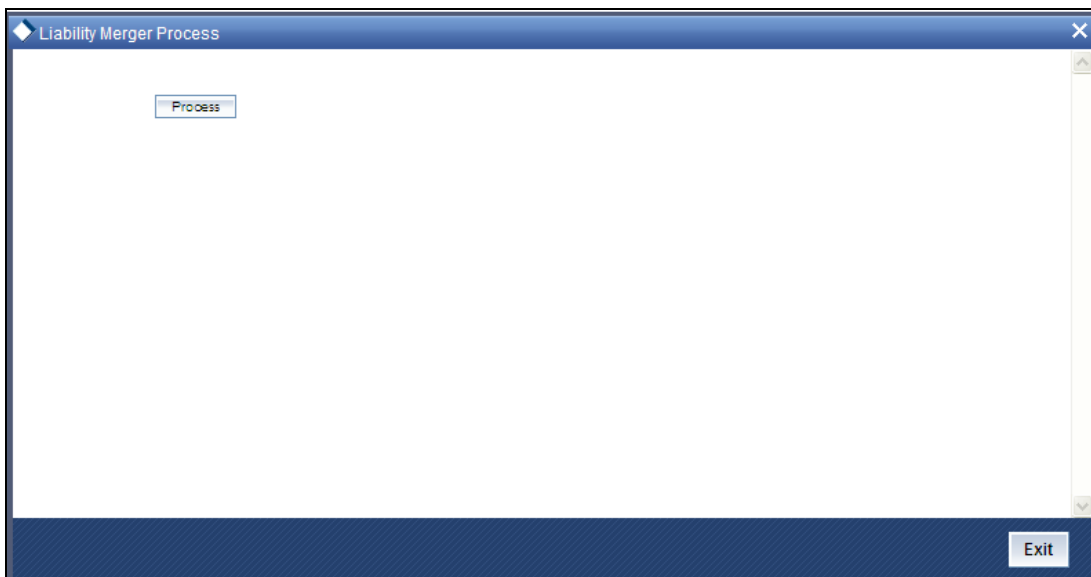
You may view the following merger logs from the above screen:

- Customer Link Merger Log
- Collateral Merger Log
- Collateral Pool Merger Log
- Netting Merger Log
- Facility Merger Log
- Transfer Merger Log
- EarMarking Merger Log
- Utilization Merger Log

2.26.2 Liability Merger Process

Once you maintained the details of liabilities to be merged, you can initiate the process of merger using the 'Liability Merger Process' screen.

You can invoke the 'Liability Merger Process' screen by typing 'GEDMRGTR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



Click 'Process' button to initiate the merger of maintained liabilities.



Note the following:

- Merger between Liabilities that form part of a hierarchy is not allowed

3. ELCM Data Replication

3.1 Introduction

As a part of ELCM centralized set up, ELCM will be installed as a standalone system. The information related to Oracle FLEXCUBE will be maintained in Oracle FLEXCUBE database, and the information related to ELCM system will be maintained in ELCM database. SMS setup of both Oracle FLEXCUBE and ELCM system will be different.

When a user is created in ELCM stand alone system, basic user details are replicated to Oracle FLEXCUBE instances. ELCM user Id details will not be stored in Oracle FLEXCUBE. So, a user can't login to Oracle FLEXCUBE using ELCM user Id. If an Oracle FLEXCUBE user wants to access ELCM maintenance screen, then SMS rights with ELCM user Id needs to be given. This should be operationally controlled. If the user has rights on ELCM function Ids, when user inputs the transaction in ELCM screen, function will be updated in ELCM stand alone system as well.

A user can input the following function IDs from Oracle FLEXCUBE instance:

Function ID	Replication Details
GEDMLIAB	Liability Input
GEDCULIK	Customer Liability Linkages
GEDCOLLT	Collateral Input
GEDMPOOL	Collateral Pool Input
GEDFACTL	Facility Input
GEDBLOCK	Facility Earmarking
GEDTRANS	Facility Transfer
EIDPEDPG	View Pending Unauthorized Transaction
GEDDAUTH	Dual Authorization



All other ELCM Function IDs should be operated from ELCM stand alone system.

Both ELCM and FLEXCUBE needs common data and common data need to be replicated between both the systems. Using ELCM replication framework, data would be replicated online between ELCM to Oracle FLEXCUBE instances and vice-versa.

3.2 Online Data Replication

When the transaction is authorized in the system, replication component applies replication filter to check whether the data needs t be replicated or not.

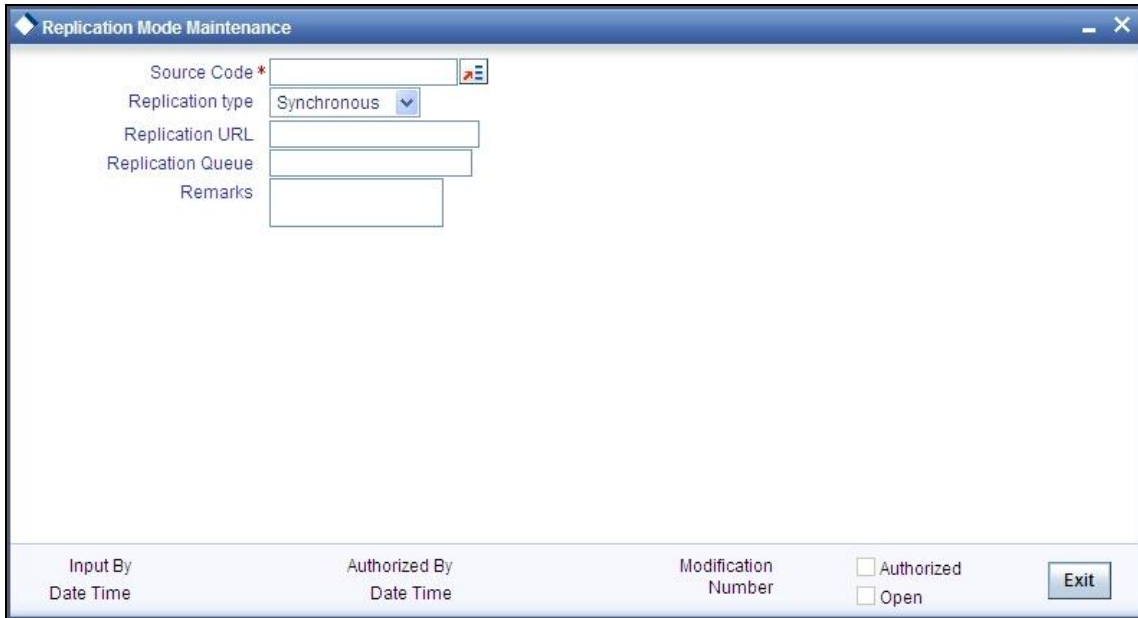
3.2.1 Replicating Data from Oracle FLEXCUBE to ELCM

As part of replication process following data would be replicated from Oracle FLEXCUBE to ELCM.

Replication Data	Replication Details
Branch	All the Branches with 'ELCM Replication' option selected will be replicated to ELCM.
Branch Holiday	Branch Holidays with 'ELCM Replication' branch option selected will be replicated to ELCM.
Rates	Rates will be replicated to ELCM only if, <ul style="list-style-type: none"> • The branch option 'ELCM replication' associated to rates is selected. • The rate types maintained as a part of ELCM parameter.
Product	All product and account class basic details required will be replicated to ELCM.
Customer	If 'ELCM Customer' option at customer maintenance is selected then customer data will be replicated to ELCM.
Account /TD	If the customer of account/TD/CD transaction is ELCM customer then data will be replicated to ELCM
Commitment Reference Number	As part of commitment interface, commitment contract will be created in Oracle FLEXCUBE and commitment contract reference number will be replicated to ELCM.

3.2.2 Processing ELCM Data Replication

You can define the replication mechanism in 'Replication Mode Maintenance' screen. You can invoke this screen by typing 'CODELREP' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



Source

Specify the Oracle FLEXCUBE instance from the adjoining option list for which the data need to be replicated.



Source Code for Oracle FLEXCUBE instances are:

- FCUBS1 – FCUBS Instance 1
- FCUBS2 – FCUBS Instance 2
- FCUBS3 – FCUBS Instance 3

Replication Type

Select Synchronous or Asynchronous from the drop-down as a replication type.

Replication URL

If the replication type is 'Synchronous', then specify the servlet URL for replication.

Replication Queue

If the replication type is 'Asynchronous', then specify the JMS queue name for replication.

Remarks

Mention the additional details (if any).

3.2.3 Replicating Data from ELCM to Oracle FLEXCUBE

As part of replication process following data will be replicated from ELCM to Oracle FLEXCUBE.

Replication Data	Replication Details
Liability	Liability details will not be replicated to all the instances of Oracle FLEXCUBE, it will replicate only to customers sources associated to the liability.
Customer liability link	Customer liability link details will not be replicated to all the instances of Oracle FLEXCUBE, it will replicate only to customers sources that are linked to the liability.
Collateral	Collateral details will be replicated to sources maintained as part of collateral maintenance and customers sources associated to the liability.
Collateral Pool	Collateral pool details will not be replicated to all the sources (instances) of Oracle FLEXCUBE, it will replicate all customer sources which are linked to that liability.
Facility details	Facility details will be replicated to only sources maintained as part of collateral maintenance and customers sources associated to the liability.
Credit Approval (Dual authorization)	Credit Approval data will be replicated to specific Oracle FLEXCUBE instance which has initiated the transaction.
User	All ELCM users would be replicated to Oracle FLEXCUBE.
ELCM parameter details	ELCM parameters would be replicated to all the instances of Oracle FLEXCUBE
ELCM customer no	ELCM customer number will be replicated to all the sources associated to the customer.
Commitment Interface	Utilization details related to commitment contract will be replicated to specific Oracle FLEXCUBE instance.

3.2.4 Processing Oracle FLEXCUBE Data Replication

You can define the replication mechanism in 'Replication Mode Maintenance' screen. You can invoke this screen by typing 'CODELREP' 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 "Replication Mode Maintenance". It contains the following fields and controls:

- Source Code * (text input with a dropdown arrow)
- Replication type (dropdown menu, currently set to "Synchronous")
- Replication URL (text input)
- Replication Queue (text input)
- Remarks (text input)

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

- Input By: DOC002
- Authorized By: (empty)
- Modification Number: (empty)
- Date Time: (empty)
- Authorized:
- Open:
- Cancel button

Source

Specify the ELCM source from the adjoining option list for which the data need to be replicated.



Source code of ELCM instance is 'SELCM'.

Replication Type

Select 'Synchronous' or 'Asynchronous' from the drop down as a replication type

Replication URL

If the replication type is 'Synchronous', then specify the servlet URL for replication.

Replication Queue

If the replication type is 'Asynchronous', then specify the JMS queue name for replication.

Remarks

Mention the additional details (if any).

3.3 Data Replication Process

Replication process applies function ID filter and data filter to check whether the data needs to be replicated or not in Oracle FLEXCUBE/ELCM system. If the data needs to be replicated, then the source, along with the source code key attributes of transaction will be log into the replication table.

As per the replication mechanism, data would be replicated either using two way authentications servlet or JMS queue. In servlet mechanism, URL maintained in replication maintenance would be used to replicate data. In JMS, request queue will be used for replication based on the status received from the other sources.



Replication status will be updated in replication table.

Data replication process takes place automatically or manually. In case of automatic data replication process, system would select the unprocessed data for replication. In case of manual data replication process, system will select only specific records for replication.

3.3.1 Automatic Data Replication

Automatic replication takes place using Oracle FLEXCUBE scheduler process. ELCM replication process is configured as part of scheduler maintenance. ELCM scheduler searches in the replication table for the unprocessed records after certain interval. System picks up the unprocessed records, sorts the data according to function ids, and forms a request XML. The request XML is sent to the instance using replication mechanism. In the instance, the data are persisted into the table and response XML is created with status of each replication data. You can view the updated status of data replication in the 'Replication Log' screen.

If data needs be replicated from Oracle FLEXCUBE to ELCM, then system uses scheduler job code 'ELREPLICATION' as a part of Oracle FLEXCUBE scheduler maintenance. If data needs be replicated from ELCM to Oracle FLEXCUBE, then system uses scheduler job code 'ELREPLICATION' as a part of ELCM scheduler maintenance.

3.3.2 Manual Data Replication

You can select the data to be replicated on the basis of the instance. You can query, view and replicate records manually in 'Replication Log Summary' screen. You can invoke this screen by typing 'GEDBREFM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Replication Details' application window. It features a search area with fields for 'Source Code *', 'Branch', 'Function Identification', 'Status', and 'Primary Key'. Below this is a table with the following columns: 'Id', 'Source Code', 'Function Identification', 'Branch', 'Primary Key', and 'Modification Number'. The table contains one row with empty cells. At the bottom of the window, there are fields for 'Input By', 'Authorized By', and 'Modification Number', along with checkboxes for 'Authorized' and 'Open', and 'Ok' and 'Exit' buttons.

Base your queries on any or all of the following parameters and fetch records:

Source

Specify the source code for which the system data needs to be replicated.

Branch

Specify the branch code for which the transaction is associated

Status

Specify the Replication status from the adjoining drop-down. The possible values in this field are:

- 'U' - Unprocessed
- 'E' - Error

Function ID

Specify the function Id for which data needs to be replicated.

Primary key

Specify the primary key of the transaction.

Select any or all of the above parameters for a query and click 'Search' button. The records meeting the selected criteria are displayed.

- Id

- Source Code
- Function Identification
- Branch
- Primary Key
- Modification Number
- Status
- Data
- Data In Time
- Replication Start Time
- Replication End Time
- Priority
- Error Code
- Remark
- Retry Count

Select the record and click on the 'Replication' button to manually replicate the data.



Possible values of the status are as follows:

- 'U' - Unprocessed
- 'P' - Replication Success
- 'E' - Replication Failed
- 'W' - WIP

3.3.3 Viewing Successfully Replicated Records

You can query successfully replicated records in the 'Replication Log Summary' screen. You can invoke this screen by typing 'COSRELOG' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a web application window titled 'Summary'. It features search filters for 'Source Code', 'Branch', 'Function ID', and 'Status'. Below the filters are 'Search', 'Advanced Search', and 'Reset' buttons. A pagination bar indicates 'Records per page: 15' and '1 Of 1' records. A table header is visible with columns: Source Code, Function ID, Branch, Primary Key, Modification Number, Status, Data, Data in Time, Replication Start Time, and Replication End Time. An 'Exit' button is located at the bottom right of the window.

Base your queries on any or all of the following parameters and fetch records:

- Source Code: Oracle FLEXCUBE or ELCM instance for which the data will get replicated.
- Branch: branch code of the transaction
- Function: for which the maintenance is done
- Status: replication status
- Primary Key: Primary key of the data
- Mod Number: modification number of the data to be uploaded

Select any or all of the above parameters for a query and click 'Search' button. The records meeting the selected criteria are displayed.

- Source Code
- Branch
- Function
- Status
- Primary Key
- Mod Number

3.4 Batch Replication

As a part of the batch replication data will be replicated in the following way:

- **Complete refresh:** Complete data would be replicated.

- **Incremental refresh:** Transaction inputted on the logic day would be replicated.
- **Error records refresh:** Replicates all the error records associated to online replication.

3.4.1 Replicating Data from Oracle FLEXCUBE to ELCM

Following data will be replicated from Oracle FLEXCUBE to ELCM using GI module of Oracle FLEXCUBE.

Replication Data	Interface ID for Complete Refresh	Interface ID for Incremental Refresh	Interface ID Error Record Refresh
Branch	IFFCCBRN	IFFCIBRN	IFFCEBRN
Branch Holiday	IFFCCBRNH	IFFCIBRNH	IFFCEBRNH
Rates	IFFCCRT	IFFCIRT	IFFCERT
Product	IFFCCPRD	IFFCIPRD	IFFCEPRD
Customer	IFFCCCIF	IFFCICIF	IFFCECIF
Account /TD	IFFCCAC	IFFCIAC	IFFCEAC
Commitment Reference Number	IFFCCCOM	IFFCICOM	IFFCECOM

3.4.2 Replicating Data from ELCM to Oracle FLEXCUBE

As part of replication process following data will be replicated from ELCM to FCUBS.

Replication Data	Interface ID for Complete Refresh	Interface ID for Incremental Refresh	Interface ID Error Record Refresh
Liability	IFELCLIAB	IFELILIAB	IFELELIAB
Customer liability link	IFELCCIFL	IFELICIFL	IFELECIFL
Collateral	IFELCCOL	IFELICOL	IFELECOL
Collateral Pool	IFELCCOLP	IFELICOLP	IFELECOLP
Facility details	IFELCFACT	IFELIFACT	IFELEFACT
User	IFELCUSER	IFELIUSER	IFELEUSER
ELCM customer no	IFELCCIFN	IFELICIFN	IFELECIFN
Commitment Interface	IFELCCOM	IFELICOM	IFELECOM



Data generated from the above interfaces will be a part of ELCM batch file formats and the file name can be changed.

4. Process Flows

4.1 Introduction

This chapter illustrates the process flows while creating a Credit Facility. The different stages are:

- Facility Creation
- Facility Renewal
- Credit Exception Management

4.2 Facility Creation

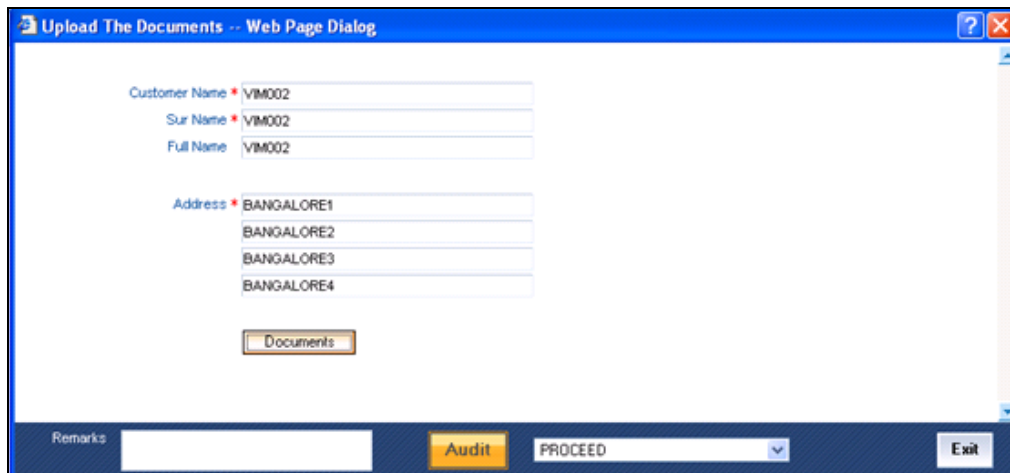
Facility creation involves collecting the required information from the customer and creating a Facility in the system. This facility creation feature is allowed only for existing customers.

The Limits Creation process in the Oracle FLEXCUBE ELCM application has several stages to complete the transaction.

4.2.1 Stage 1 – Upload of Documents (Initiation Stage)

The first stage of the process flow is the process initiation stage. Use the 'Upload The Documents' screen to initiate the process.

To invoke the 'Upload the Documents' screen, first select 'Process Flows' from the browser. Under that click 'Limits Creation' button and then click 'Stage 1'.

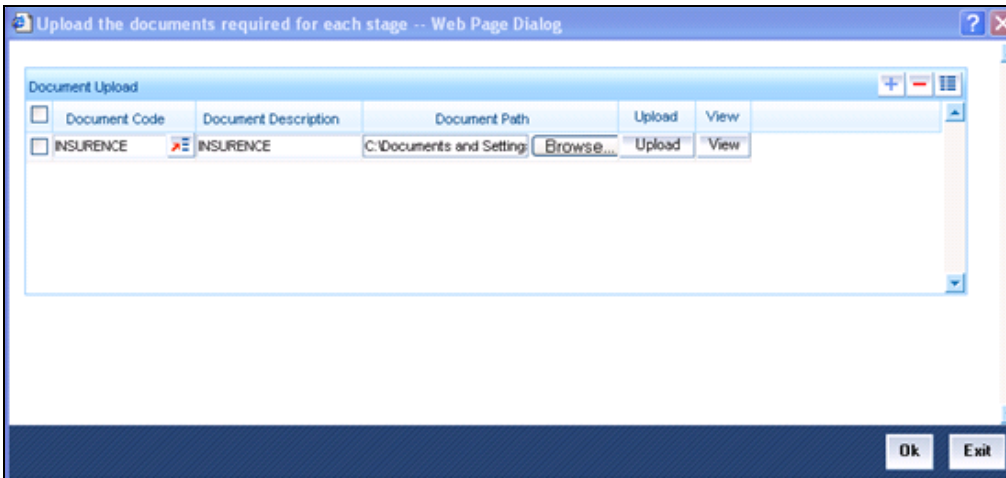


The screenshot shows a web page dialog titled "Upload The Documents -- Web Page Dialog". The form contains the following fields and controls:

- Customer Name: VIM002
- Sur Name: VIM002
- Full Name: VIM002
- Address: BANGALORE1, BANGALORE2, BANGALORE3, BANGALORE4
- Documents: A button labeled "Documents" is located below the address field.
- Remarks: A text input field.
- Audit: A yellow button labeled "Audit".
- PROCEED: A dropdown menu with "PROCEED" selected.
- Exit: A button labeled "Exit".

Here you can enter Customer Information such as Customer Name and Address.

If you want to upload documents, click 'Documents' button to invoke the Upload the Documents screen.



For each document you wish to upload, specify the following details:

Document Code

Specify the document code of the particular document. Document code is maintained for particular documents in the document system.

Document Description

Provide a brief description of the document here.

Document Path

Browse for, and hence specify the path of, the location of the document. Click 'Browse' button for the path.

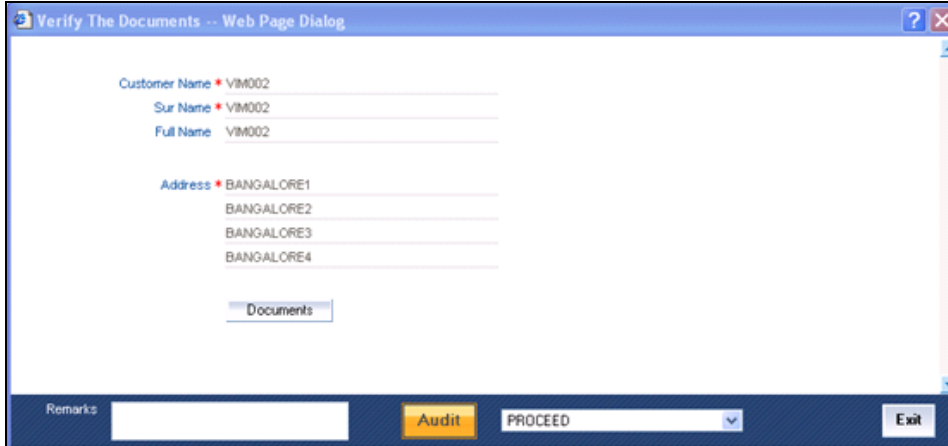
Click 'View' to view the document you are uploading.

Click 'Upload' to upload the document. Click 'Ok'.

On saving you entries, the task goes to the Pending Queue with the work title 'Verify the Documents'. Click 'Acquire' button to move it from pending queue to the assigned queue.

4.2.2 Stage 2 – Verify the Documents

To view the Assigned tasks queue, select the 'Tasks' browser first. Then choose 'Assigned'. In the Assigned queue, double-click a task. The 'Verify the Documents' screen opens.



Verify The Documents -- Web Page Dialog

Customer Name * VM002
Sur Name * VM002
Full Name VM002

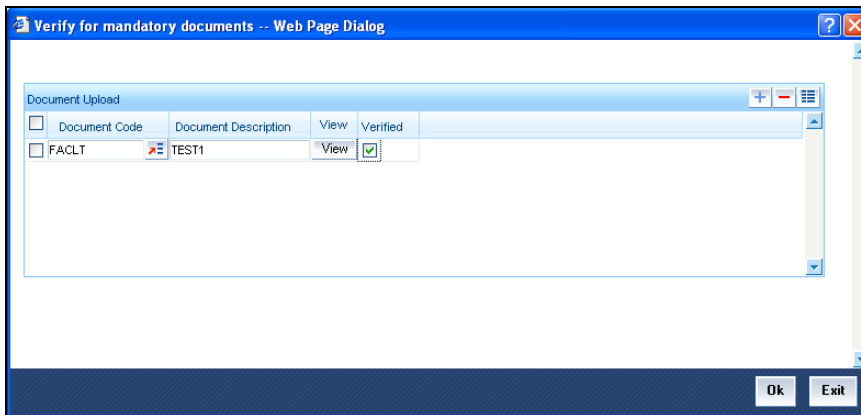
Address * BANGALORE1
BANGALORE2
BANGALORE3
BANGALORE4

Documents

Remarks

Audit PROCEED Exit

Click 'Documents' button to verify the documents. In the screen that opens, indicate against each document whether it's verified or not.



Verify for mandatory documents -- Web Page Dialog

Document Upload

Document Code	Document Description	View	Verified
FACTL	TEST1	View	<input checked="" type="checkbox"/>

Ok Exit

On click of the Ok button the DMS reference number will be saved in the database.

On satisfactorily verifying the documents, you may choose 'Proceed'. Click 'Ok' button. On saving the record, the task goes to the Pending queue with 'Check for the Customer' work title. From the Pending queue, click 'Acquire' button to move the task to the Assigned queue.

You can pick up the task from the Assigned Queue.



In case the documents are not found, then select 'DOCMISSING' and then proceed to the previous stage – Upload of Documents.

4.2.3 Stage 3 – Checking for the Customer

Double-click on the task in the assigned queue. The 'Check For the Existing Customer' screen will be displayed.

Customer No	LBL_LIABID	LBL_CCATEG	Name	Sur Name	Customer
CUS0001	CUS0001	Individual	CUS0001	CUS0001	CUS0001

You may click 'Details' button to view the Customer details screen as shown below.

Customer No * CUSTOM001
Short Name * NAME
Short Name2 NAME
Branch Code CHO
Full Name
Group Code
Country * USA
Nationality * USA
Language * ENG
Exposure
Location Code
Unique Identifier Name
Unique Identifier Value
Customer Category * CAT
Credit Rating
Revision Date
Source
User Reference Number

Customer Type
 Bank
 Corporate
 Individual

Customer Name NAME
Address Line1 * ADD
Address Line 3 ADD
Address Line 2 ADD
Address Line 4 ADD
Fax
 Frozen
 Deceased
 Unadvised
 CRM Customer
 Issuer Customer
 Treasury Customer
SSN

Specify the customer as 'Existing' and save your record.

On saving the task goes to the Pending queue with 'Check for the Collaterals' work title. From there, on selecting the task and clicking 'Acquired', the task will successfully acquired and sent to the 'Assigned' queue.

4.2.4 Stage 4 – Check for the Collaterals

Double-click the transaction from the Assigned Queue.

Task List										
Branch	Module	Work Id	Work Title	Customer No	Txn Amt	Txn Currency	User Ref No	Product	Assigned Date	Actions Header
CHO	CreateLimitsForCorpCust100003		CheckForTheCollaterals						Fri May 30 15:34:43 IST 2008	<input type="button" value="Release"/>
CHO	CreateLimitsForCorpCust90006		CheckForTheCustomer						Thu May 29 12:13:19 IST 2008	<input type="button" value="Release"/>
CHO	CreateLimitsForCorpCust100001		CreateLineCode						Fri May 30 12:20:51 IST 2008	<input type="button" value="Release"/>
CHO	CreateLimitsForCorpCust100002		UploadTheDocuments						Fri May 30 14:44:50 IST 2008	<input type="button" value="Release"/>

From the Task List, go to the 'Check for Collateral' for the transaction.

Customer No * VIM002
Short Name * VIM002
Short Name2 VIM002
Branch Code CHO
Full Name VIM002
Group Code
Country * USA
Nationality * USA
Language * ENG
Exposure USA
Location Code
Unique Identifier Name
Unique Identifier Value
Customer Category * CUSTOMER
Credit Rating
Revision Date
Source
User Reference Number

Customer Type
 Bank
 Corporate
 Individual

Customer Name VIM002
Address Line 1 * BANGALORE1
Address Line 3 BANGALORE2
Address Line 2 BANGALORE3
Address Line 4 BANGALORE4
Fax
 Frozen
 Deceased
 Unadvised
 CRM Customer
 Issuer Customer
 Treasury Customer
SSN

Fields
Remarks
 ADDCOLLATERAL

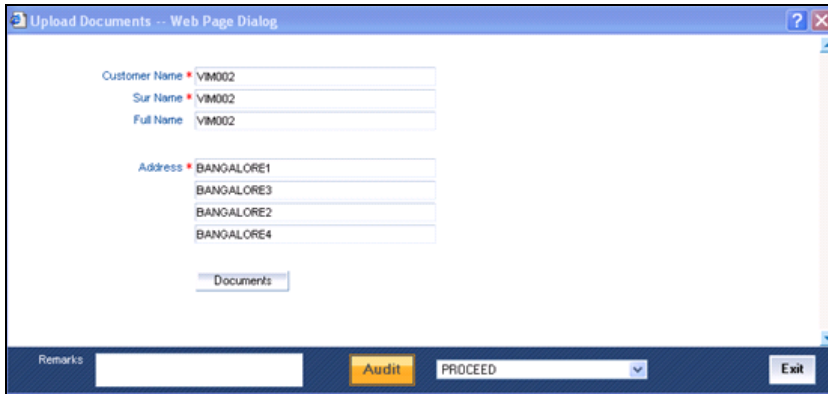
If you want to add a new collateral, select 'ADD COLLATERAL'. On saving the record, the record goes to the Pending Queue with 'Upload Collateral Docs' work title. Click 'Acquire' to move the task into the Assigned queue.

If you have not selected ADD COLLATERAL, the you will proceed to the Create Limits stage (Stage 9).

4.2.5 Stage 5 – Upload Collateral Docs

Collateral acquisition is the process where the user can add more documents and more collaterals and collateral pools before going to create the limits. This stage is the first stage in the collateral acquisition process.

Double-click on the task from the Assigned queue. The 'Upload Documents' screen is displayed.

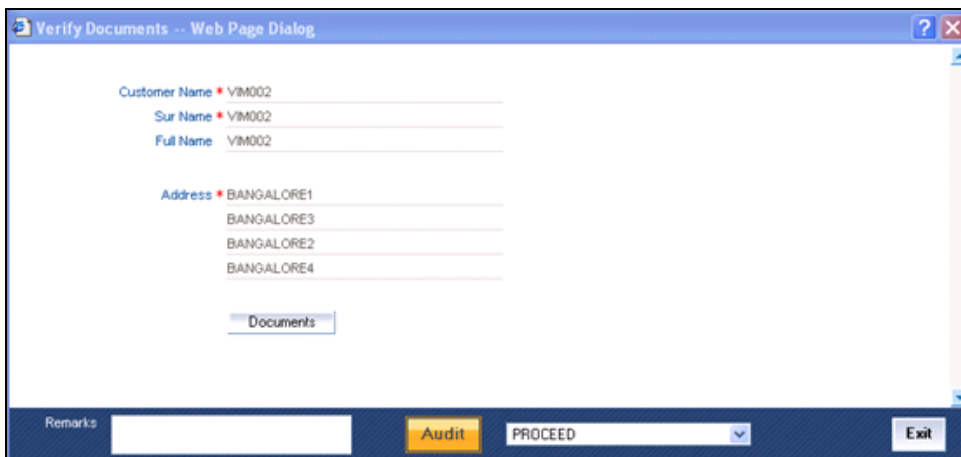


The Customer name and other address details will be displayed here. Click on 'Documents' button to upload the documents.

On saving, the task goes to the Pending queue with the work title 'Verify Collateral Docs'. Click 'Acquire' button to send the task to the Assigned Queue.

4.2.6 Stage 6 – Verify Collateral Docs

Here the user can verify the documents which were previously uploaded. Double-click on the task in the Assigned Queue to view the 'Verify Documents' screen.



Here, click 'Documents' button to verify the documents.

Select PROCEED. On saving, the task goes to the Pending queue with the work title 'Add Collaterals'. Click 'Acquire' button to send the task to the Assigned Queue.



In case the documents are not found, then select 'DOCMISSING' and then proceed to the previous stage – Upload of Collateral Documents.

4.2.7 Stage 7 – Add Collaterals

In this stage you can add more collaterals for the facility. Double-click on the task in the Assigned Queue to view the 'Add Collateral' screen.

The screenshot shows the 'Add Collateral' web page dialog. The form is divided into several sections: 'Collateral Details', 'Market Value Based', and 'Guarantee Based'. The 'Collateral Details' section includes fields for Liability No (LIMLIAB05), Collateral Code (COLLATERALV1), Collateral Description (COLLATERALV1), Collateral Type (Normal), Collateral Currency (USD), Collateral Value (100000.00), Haircut (%) (15), Start Date, End Date, Charge Type (Mortgage), and Grace Days. The 'Market Value Based' section includes Security Code, Number of Units / Nominal Value, Cap Amount, Price Code, Last Reval Price, and Next Reval Date. The 'Guarantee Based' section includes Guarantor Id, Rating, Revokeable checkbox, and Revoke Date. The bottom of the dialog has tabs for Insurance, Covenant, and Fields, and buttons for Audit, PROCEED, and Exit.

Here you may specify the necessary Collateral Details. On successfully creating the record the following message is displayed:

Record Created Successfully

On saving, the task goes to the Pending queue with the work title 'Add Collateral Pools'. Click 'Acquire' to send the task to the Assigned Queue.

4.2.8 Stage 8 – Add Collateral Pools

Here you can add collateral pools to the facility. Double-click on the task in the Assigned Queue to view the 'Add Collateral Pool' screen.

Collateral Code	Collateral Description	Collateral Ccy	Collateral Amount	Branch Code	Order	Type	Linked Amount
COLLATERALV1	COLLATERALV1	USD	100000.00	CHD	1	N	

Here you can specify the details of the Collateral Pool. On successfully creating the record, the following message is displayed:

Record Created Successfully

On saving, the task goes to the Pending queue with the work title 'Create Limits'. Click 'Acquire' button to send the task to the Assigned Queue.

4.2.9 Stage 9 – Creation of Limits

Double-click on the task in the Assigned Queue to view the 'Create Facility' screen.

Collateral Code	Collateral Description	Collateral Ccy	Collateral Amount	Branch Code	Order	Type	Linked Amount
COLLATERALV1	COLLATERALV1	USD	100000.00	CHD	1	N	

Enter the details for creating the Limits Facility. After successfully creating the limits facility the following message is displayed.

Record Created Successfully

You may check for the created facility in the Facilities Maintenance summary screen.

4.3 **Facility Renewal**

The Facility Renewal process begins with the receipt of an application seeking renewal of existing credit facilities with or without enhancement from the bank. On receipt of the application for credit facilities, the bank will carry out activities such as, basic verification of documents, KYC review, limits review for renewal (credit worthiness checks), collateral evaluation, etc.

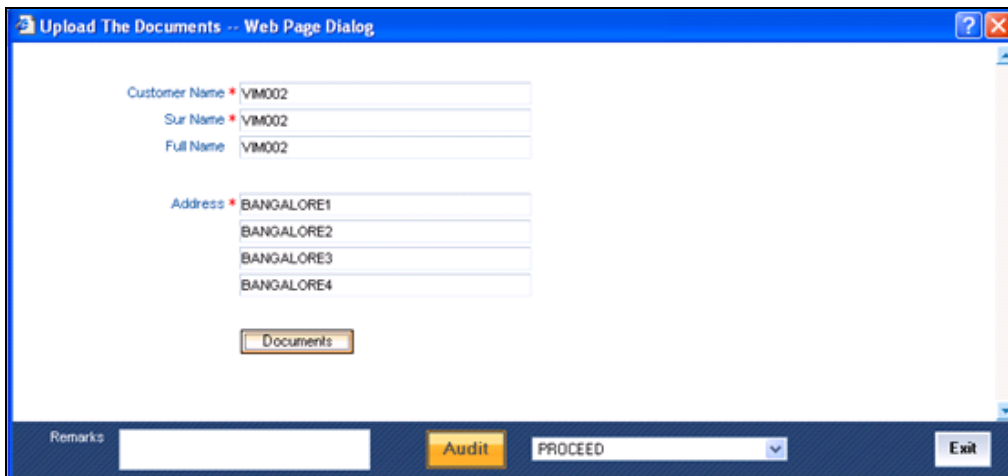
Once credit worthiness checks are passed and collateral evaluation is done, the bank will arrive at a decision on renewal of limits (with or without enhancement) or reduction of existing limits and will communicate the same to the client (borrower). Once the borrower's agreement is obtained for the sanctioned terms, the bank will modify the existing limit details in the relevant application.

The procedure involved in the Renewal of Credit Facilities for a customer are illustrated below.

4.3.1 **Stage 1 – Upload of Documents (Initiation Stage)**

The first stage of the process flow is the process initiation stage. Use the 'Upload The Documents' screen to initiate the process.

To invoke the 'Upload the Documents' screen, first select 'Process Flows' from the browser. Under that click 'Credit Facility Renewal' button and then click 'Stage 1'.

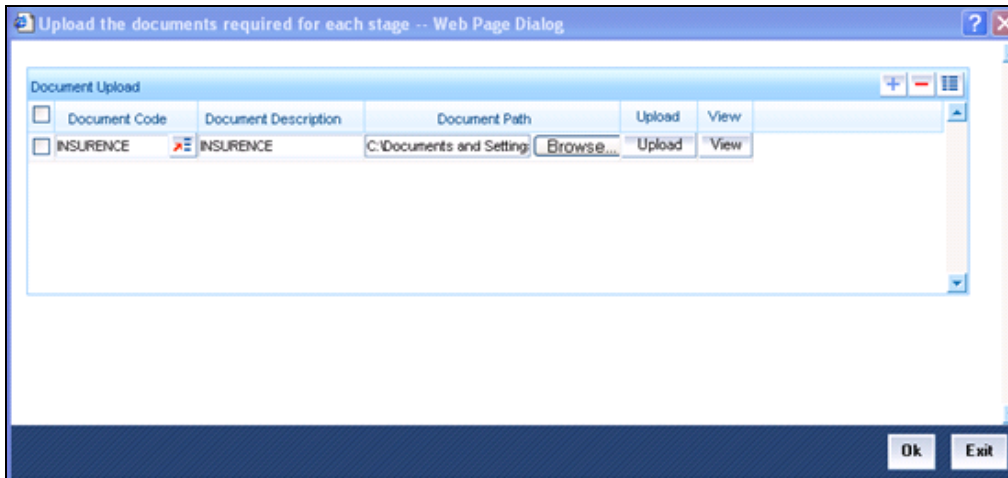


The screenshot shows a web page dialog titled "Upload The Documents -- Web Page Dialog". The form contains the following fields and buttons:

- Customer Name: VIM002
- Sur Name: VIM002
- Full Name: VIM002
- Address: BANGALORE1, BANGALORE2, BANGALORE3, BANGALORE4
- Documents button
- Remarks field
- Audit button
- PROCEED dropdown menu
- Exit button

Here you can enter Customer Information such as Customer Name and Address.

If you want to upload documents, click 'Documents' button to invoke the Upload the Documents screen.



For each document you wish to upload, specify the following details:

Document Code

Specify the document code of the particular document. Document code is maintained for particular documents in the document system.

Document Description

Provide a brief description of the document here.

Document Path

Browse for, and hence specify the path of, the location of the document. Click 'Browse' button for the path.

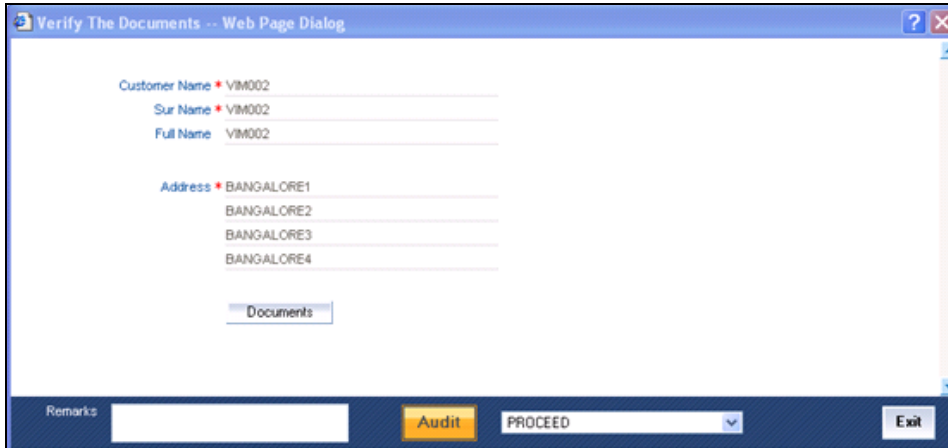
Click 'View' button to view the document you are uploading.

Click 'Upload' button to upload the document. Click 'Ok'.

On saving you entries, the task goes to the Pending Queue with the work title 'Verify the Documents'. Click 'Acquire' button to move it from pending queue to the assigned queue.

4.3.2 Stage 2 – Verify the Documents

To view the Assigned tasks queue, select the 'Tasks' browser first. Then choose 'Assigned'. In the Assigned queue, double-click a task. The 'Verify the Documents' screen opens.



Verify The Documents -- Web Page Dialog

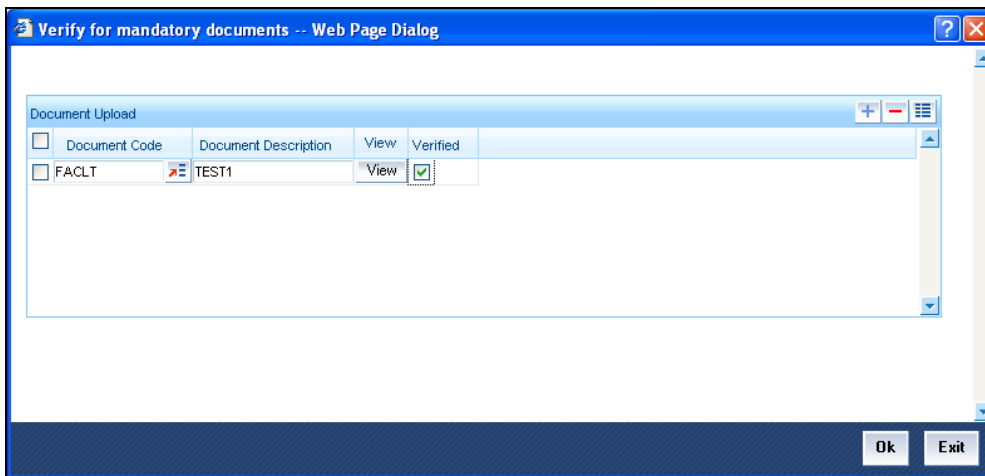
Customer Name * VM002
Sur Name * VM002
Full Name VM002

Address * BANGALORE1
BANGALORE2
BANGALORE3
BANGALORE4

Documents

Remarks Audit PROCEED

After re-specifying customer details, in case of any changes, click 'Documents' button to verify the documents. In the screen that opens, indicate against each document whether it's verified or not.



Verify for mandatory documents -- Web Page Dialog

Document Upload

<input type="checkbox"/>	Document Code	Document Description	View	Verified
<input type="checkbox"/>	FACTL	TEST1	View	<input checked="" type="checkbox"/>

Ok Exit

On clicking the 'Ok' button the DMS reference number will be saved in the database.

On satisfactorily verifying the documents, you may choose 'Proceed'. Click 'Ok' button. On saving the record, the task goes to the Pending queue with 'Input Credit Details' work title. From the Pending queue, click 'Acquire' button to move the task to the Assigned queue.

You can pick up the task from the Assigned Queue.



In case the documents are not found, then select 'DOCMISSING' and then proceed to the previous stage – Upload of Documents.

4.3.3 Stage 3 – Input Credit Details

Double-click on the task in the assigned queue. The 'Credit Details Input' screen will be displayed.

The screenshot shows the 'Credit Details Input' web page dialog. The form is divided into several sections:

- Liability Information:** Liability Id * LIAB001, Line Code * LINEVIM2, Serial No * 1, Line Currency USD, User Defined Status, Main Line Code.
- Amounts:** Limit Amount 777770.00, Collateral Amount, Transfer Amount, Effective Line Amount, Uncollateralized Funds Line, Reporting Amount, Block Amount.
- Availability:** Available checkbox, Line Start Date 7/3/2000, Expiry Date, Last Available Date, Availment Date, Conversion Date.
- Utilization:** Available Amount, Date Of First CO, Date Of Last CO, Utilization Amount, Tanked Utilization, Netting Utilization.
- Exception:** Exception Txn Amount, Exception Breach Percentage.
- Internal Remarks:** A text field for internal remarks.

Additional features include checkboxes for Currency Restriction, Revolving Line, Netting Required, Funded, and Unadvised. A dropdown menu for 'Eff. Line Amount Basis' is set to 'Limit Amount + Collateral Contribution'. At the bottom, there are tabs for Tenor Restrictions, Limit Restrictions, Schedules, Value Dates, Charges, Covenants, Pool Links, Exposures, Ext System Restrictions, and Fields. A Remarks field, an Audit button, a PROCEED dropdown, and an Exit button are also visible.

Specify the required Credit Details in the above screen.

On saving, the task goes to the Pending queue with 'Verify Input' work title. From there, on selecting the task and clicking 'Acquired', the task will successfully acquired and sent to the 'Assigned' queue.

4.3.4 Stage 4 – Verify Credit Details

Double-click on the task in the assigned queue. The 'Verify Credit Details' screen will be displayed.

The screenshot shows a web-based form titled "Verify Credit Details - Web Page Dialog". The form is organized into several sections:

- Liability Information:** Liability Id * LIAB001, Line Code * LINEVM2, Serial No * 1, Line Currency USD, User Defined Status, Main Line Code.
- Amounts:** Limit Amount 777770.00, Collateral Amount, Transfer Amount, Effective Line Amount, Uncollateralized Funds Line, Reporting Amount, Block Amount.
- Availability:** Available checkbox, Line Start Date 7/3/2000, Expiry Date, Last Available Date, Availment Date, Conversion Date, Internal Remarks.
- Utilization:** Available Amount, Date Of First CD, Date Of Last CD, Utilization Amount, Tanked Utilization, Netting Utilization.
- Exception:** Exception Txn Amount, Exception Breach Percentage.

Additional options include checkboxes for Currency Restriction, Revolving Line, Netting Required, Funded, and Unadvised. A dropdown menu for "Eff Line Amount Basis" is set to "Limit Amount + Collateral Contribution".

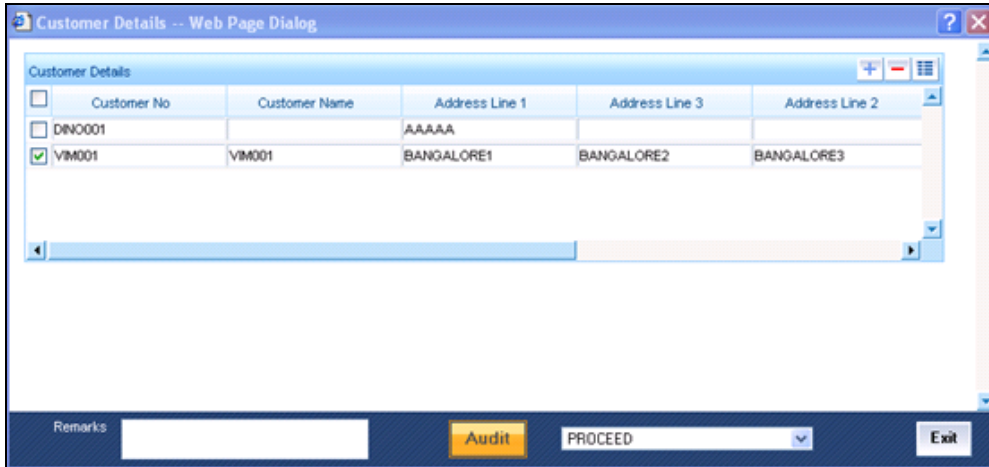
At the bottom, there are tabs for "Tenor Restrictions", "Limit Restrictions", "Schedules", "Value Dates", "Charges", "Covenants", "Pool Links", and "Exposures". Below these are "Ext System Restrictions" and "Fields" tabs. A "Remarks" field is present, along with "Audit", "APPROVE", and "Exit" buttons.

The credit details you have specified before are displayed here. You can verify the credit details displayed. If found satisfactory select APPROVE. On saving the record, the record goes to the Pending Queue with 'View Customer List' work title. Click 'Acquire' button to move the task into the Assigned queue.

If the Credit Details are not found to be satisfactory, then select REJECT and the task is terminated.

4.3.5 Stage 5 – View Customer Details List

Here the user can check the number of customers available. Double-click on the task in the assigned queue. The 'Customer Details' screen will be displayed.



The customer details of the customer for the facility are displayed. You can verify the details displayed. If found satisfactory, select PROCEED. On saving the record, the record goes to the Pending Queue with 'Check for KYC Information' work title. Click 'Acquire' button to move the task into the Assigned queue.

4.3.6 Stage 6 – Check for KYC Changes

Double-click on the task in the assigned queue. The 'Check for Changes in KYC' screen will be displayed.



The Know Your Customer details are displayed. You can make changes, if any, in the details displayed. If there is no change, select NOCHANGE. On saving the record, the record goes to the Pending Queue with 'Renewal of Credit Facility' work title. Click 'Acquire' button to move the task into the Assigned queue.

4.3.7 Stage 7 – Renewal of Limits

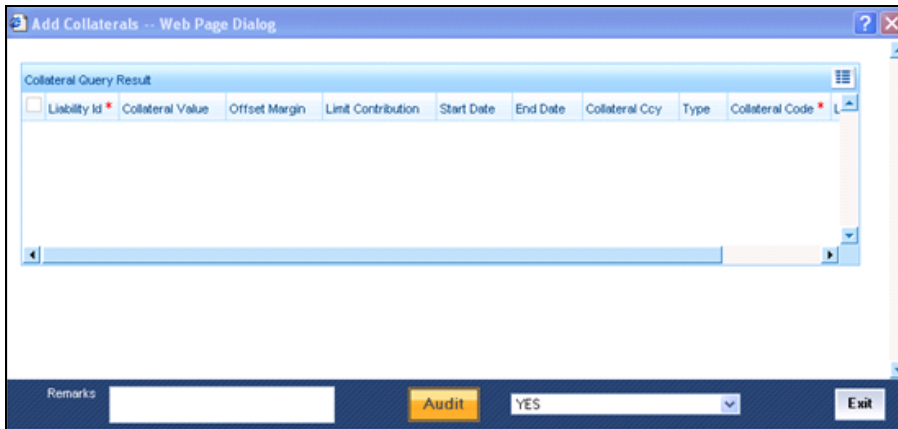
Double-click on the task in the assigned queue. The 'Sanction Decision for Renewal of Limits' screen will be displayed.

The details pertaining to Renewal of limits are displayed. You can make changes, if any, in the details displayed. If found satisfactory, select APPROVE. On saving the record, the record goes to the Pending Queue with 'Add Collateral' work title. Click 'Acquire' button to move the task into the Assigned queue.

If the Sanction Decision Details are not found to be satisfactory, then select REJECT and the task is terminated.

4.3.8 Stage 8 – Add Collaterals

Double-click on the task in the Assigned Queue to view the 'Add Collateral' screen.



Here you may specify the necessary Collaterals. On saving, the task goes to the Pending queue with the work title 'Update Collateral Docs'. Click 'Acquire' button to send the task to the Assigned Queue.

4.3.9 Stage 9 – Upload Collateral Docs

Double-click on the task from the Assigned queue. The 'Upload Documents' screen is displayed.



The Customer name and other address details will be displayed here. Click on 'Documents' button to upload the documents.

On saving, the task goes to the Pending queue with the work title 'Verify Collateral Docs'. Click 'Acquire' button to send the task to the Assigned Queue.

4.3.10 Stage 10 – Verify Collateral Docs

Double-click on the task in the Assigned Queue to view the 'Verify Documents' screen.

Verify Documents -- Web Page Dialog

Customer Name * VM002
 Sur Name * VM002
 Full Name VM002

Address * BANGALORE1
 BANGALORE3
 BANGALORE2
 BANGALORE4

Documents

Remarks: [] Audit PROCEED [v] Exit

Here, click 'Documents' button to verify the documents.

Select PROCEED. On saving, the task goes to the Pending queue with the work title 'Add Collateral'. Click 'Acquire' button to send the task to the Assigned Queue.



In case the documents are not found, then select 'DOCMISSING' and then proceed to the previous stage – Upload of Collateral Documents.

4.3.11 Stage 11 – Add Collateral

Double-click on the task in the Assigned Queue to view the 'Add Collateral' screen.

Add Collateral -- Web Page Dialog

Collateral Details

Liability No * LIMLIAB05
 Collateral Code * COLLATERALV1
 Collateral Description COLLATERALV1
 Collateral Type
 Market Value Based
 Guarantee Based
 Normal
 Collateral Currency * USD
 Collateral Value 100000.00
 Haircut (%) * 15
 Start Date []
 End Date []
 Charge Type Mortgage
 Grace Days []

Liability Branch SMS
 Collateral Category * LAND100
 Secured Type
 Secured
 Unsecured
 Liquid
 Limit Contribution []
 User Reference Number []
 Revalue Collateral
 Lendable Margin (%) []
 Revision Date []
 Revaluation Date []

Market Value Based
 Security Code []
 Number of Units / Nominal Value []
 Cap Amount []
 Price Code []
 Last Reval Price []
 Next Reval Date []

Guarantee Based
 Guarantor Id []
 Rating []
 Revokeable
 Revoke Date []

Insurance Covenant Fields

Remarks: [] Audit PROCEED [v] Exit

Here you may specify the necessary Collateral Details. On saving, the task goes to the Pending queue with the work title 'Add Collateral Pools'. Click 'Acquire' button to send the task to the Assigned Queue.

4.3.12 Stage 12 – Add Collateral Pools

Double-click on the task in the Assigned Queue to view the 'Add Collateral Pool' screen.

Collateral Code	Collateral Description	Collateral Ccy	Collateral Amount	Branch Code	Order	Type	Linked Amount
COLLATERALV1	COLLATERALV1	USD	100000.00	CHD	1	N	

Here you can specify the details of the Collateral Pool. On saving, the task goes to the Pending queue with the work title 'Modify the Limits'. Click 'Acquire' button to send the task to the Assigned Queue.

4.3.13 Stage 13 – Modify the Limits

Double-click on the task in the Assigned Queue to view the 'Modify the Limits' screen.

Collateral Code	Collateral Description	Collateral Ccy	Collateral Amount	Branch Code	Order	Type	Linked Amount
COLLATERALV1	COLLATERALV1	USD	100000.00	CHD	1	N	

Enter the details for modifying the Limits Facility. After successfully modifying the limits facility the following message is displayed.

Record Modified Successfully

You may check for the modified facility in the Facilities Maintenance summary screen.

4.4 Credit Exception Management

Credit exception management handles the transaction amount authorization and breached amount authorization. All transaction utilization process is made to validate for these two amounts against the maintenance done for their respective facility in Facility Maintenance. If the amount crosses the specified transaction amount in facility maintenance then the incoming transaction has to be authorized via BEPL workflow.

Utilization transactions received for facilities where netting is allowed (at facility, liability and account levels) and where the funds under the concerned facility are insufficient are also handled by the credit exception process flow and need dual authorization.

The user id to whom the authorization will be assigned is based on the two conditions given below:

- Transaction amount exception: If the transaction amount falls in any one of the range in Transaction authorization amount as per the maintenance in Transaction Authorize Screen, then the following transaction goes into credit exception management and then taken up by BEPL workflow for pending authorization.
- Breached amount exception: If the Breached amount falls in any one of the range in Breached authorization amount as per the maintenance in Transaction Authorize Screen, then the following transaction goes into credit exception management and then taken up by BEPL workflow for pending authorization.

Breached Transaction

If the transaction amount has crossed the limit line amount then the following transaction is a Breached transaction. The excessive amount is called as the Breached amount.

4.4.1 Pending Task before Acquiring the Task

Task List										
Branch	Module	Work Id	Work Title	Customer Number	Txn Amount	Txn Currency	User Reference Number	Product	Assigned Date	Actions Header
CHO		MultiAuthorization270001	AuthorizationHumanTask	LIMCUST02	18000	USD		CFCF	Mon Sep 29 09:14:45 GMT+05:30 2008	Acquire
CHO		CreateLimitsForCorpCust230003	CheckForTheCollaterals						Tue Sep 23 11:59:52 GMT+05:30 2008	Acquire
CHO		CreditRenewalForCorpCust220007	ModifyTheLimits						Mon Sep 22 16:29:03 GMT+05:30 2008	Acquire
CHO		CreditRenewalForCorpCust220001	ModifyTheLimits						Mon Sep 22 11:58:45 GMT+05:30 2008	Acquire
CHO		CreditRenewalForCorpCust230006	Upload Documents						Tue Sep 23 12:08:54 GMT+05:30 2008	Acquire
CHO		CreditRenewalForCorpCust240006	Upload Documents						Wed Sep 24 18:28:54 GMT+05:30 2008	Acquire
CHO		CreateLimitsForCorpCust240001	UploadTheDocuments						Tue Sep 23 17:33:33 GMT+05:30 2008	Acquire
CHO		CreditRenewalForCorpCust250001	ViewCustomerList						Wed Sep 24 19:25:16 GMT+05:30 2008	Acquire

4.4.2 Task in Assigned Task List for Assigned User Group Users

Task List										
Branch	Module	Work Id	Work Title	Customer Number	Txn Amount	Txn Currency	User Reference Number	Product	Assigned Date	Actions Header
CHO		MultiAuthorization250017	AuthorizationHumanTask	LIMCUST02	65000	USD		LDPT	Fri Sep 26 12:27:51 GMT+05:30 2008	Release
CHO		MultiAuthorization270001	AuthorizationHumanTask	LIMCUST02	18000	USD		CFCF	Mon Sep 29 09:14:45 GMT+05:30 2008	Release
CHO		CreateLimitsForCorpCust250014	UploadTheDocuments						Fri Sep 26 10:33:48 GMT+05:30 2008	Release

4.4.3 After Launching the Screen

The screenshot displays a web application window titled "Dual Authorization Process -- Web Page Dialog". The window contains a form with the following fields and values:

Utilisation Details	
SI No *	102
Util Id	SMSUTIL003090003
Customer No	LIMCUST02
Transaction Date	11/4/2000
Utilization Amount	18000
Utilisation Currency	USD
Liability No	LIMLIAB02
Line Code	TXNAUTH
Serial No	1
Facility Currency	USD
Facility Utilisation	18000
Utilisation Branch	SMS
Utilisation Product	CFCF
Value Date	11/4/2000
Source	
Utilisation Status	A
	<input type="checkbox"/> Deleted
Liability Currency	USD
Liability Utilisation	18000
Exception Queue	EXPQJUE01
Error Code *	TX
Error Parameters	
Remarks	

At the bottom of the window, there is a "Remarks" text box, an "Audit" button, a dropdown menu currently set to "APPROVE", and an "Exit" button.

After authorization it will give the message 'Authorized Successfully'.

5. Queries

5.1 Introduction

The Queries module under the Menu Browser provides query functions for the following:

- Liabilities
- Liability Exposure
- Liability History

5.2 Liabilities Query

The 'Liability Query' screen allows you to query for records based on the following parameters:

- Liability Identification
- Overall limit issued to the liability ID
- Credit rating
- Revision date
- Utilization amount
- Branch to which the liability belongs to
- Customer name of the liability ID

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

The screenshot shows a software interface titled "Summary". It includes several input fields and dropdown menus for filtering data: "Authorization Status", "Record Status", "Liability No", "Branch", and "Liability Currency". Below these fields are buttons for "Search", "Advanced Search", and "Reset". A navigation bar shows "Records per page" set to 15 and "1 Of 1" records. A table header lists the following columns: "Authorization Status", "Record Status", "Overall Limit", "Credit Rating", "Revision Date", "Utilization Amount", "Unadvised", "Liability No", and "Liability Currency". At the bottom, a legend defines the status codes: "Authorization Status" with "A - Authorized" and "U - Unauthorized", and "Record Status" with "C - Closed" and "O - Open". An "Exit" button is located in the bottom right corner.

You can use this screen to query the Facilities and the Utilizations Details for a Liability. To do this, choose the liability for which you wish to view details by checking the box at the beginning of each row and clicking the 'Facility Detail' button. The 'Facility Query' screen with details of the facilities is displayed:

<input type="checkbox"/>	Line Code	Serial No	Line Currency	Liability ID	Limit Amount	Collateral Amount	Utilisation	Reporting
<input type="checkbox"/>	COCACOLA_JPACCOUNT	1	JPY	672	25,000,000	0.00	220,000	25,000
<input type="checkbox"/>	COCALINE1	1	USD	672	1,000,000.00	0.00	0.00	1,000.00
<input type="checkbox"/>	COCACOLA_MAINLINE	1	USD	672	1,000,000,000.00	0.00	0.00	1,000,000.00
<input type="checkbox"/>	COCACOLA_NONFUND	1	USD	672	50,000,000.00	0.00	0.00	50,000.00
<input type="checkbox"/>	COCACOLA_OVERDRAFT	1	USD	672	50,000,000.00	0.00	4,602,200.00	50,000.00
<input type="checkbox"/>	COCACOLA_SHORTTERM	1	USD	672	25,000,000.00	0.00	0.00	25,000.00
<input type="checkbox"/>	COCACOLA_LC	1	USD	672	25,000,000.00	0.00	0.00	25,000.00
<input type="checkbox"/>	COCACOLA_GUARANTEES	1	USD	672	25,000,000.00	0.00	0.00	25,000.00
<input type="checkbox"/>	COCACOLA_FUNDED	1	USD	672	60,000,000.00	0.00	4,602,200.00	60,000.00
<input type="checkbox"/>	COCACOLA_USD_L1	1	USD	672	1,000,000.00	0.00	0.00	
<input checked="" type="checkbox"/>	COCACOLA_UKACCOUNT	1	GBP	672	15,000,000.00	69,700.00	0.00	15,000.00
<input type="checkbox"/>	COCACOLA_USLOAN	1	USD	672	10,000,000.00	3,362,250.00	0.00	10,000.00
<input type="checkbox"/>	COCACOLA_LONGTERM	1	USD	672	25,000,000.00	0.00	0.00	25,000.00
<input type="checkbox"/>	COCACOLA_USACCOUNT	1	USD	672	30,000,000.00	0.00	4,010,000.00	30,000.00

Utilization Details

Exit

In the 'Facility Query' screen, choose the facility for which you wish to view the utilization details by checking the box at the beginning of the row and clicking on the 'Utilization Details' button. The system displays the 'Utilization Query' screen containing details of the utilization, as shown below:

The screenshot shows a web browser window titled "Utilization Query -- Webpage Dialog". Inside the window, there is a table titled "Utilization List". The table has the following columns: Utilization Reference No, Customer No, Liability No, Line Code, Serial No, and Booking D. There are two rows of data in the table.

Utilization Reference No	Customer No	Liability No	Line Code	Serial No	Booking D
CHOUTL082890398	C00003	COACOLA	COACOLA_JPACCOUNT	1	10/15/2008
CHOUTL082890397	C00003	COACOLA	COACOLA_JPACCOUNT	1	10/15/2008

An "Exit" button is located at the bottom right of the dialog window.

5.3 Liability History

The 'Liability History Query' screen allows you to query for records based on the following parameters:

- Liability Identification
- Overall limit issued to the liability ID
- Utilization amount
- Credit rating over a period of time

You can invoke the 'Liability History Query' screen by typing 'GESQHLIA' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Summary

Authorization Status Record Status

Liability No Branch

Search Advanced Search Reset

Records per page 15 1 Of 1 Go to Page

Authorization Status	Record Status	Id	Liability No	Liability Name	Branch	Liability Currency	Utilization Amount	Revision Date	Credit Rating
----------------------	---------------	----	--------------	----------------	--------	--------------------	--------------------	---------------	---------------

Authorization Status A - Authorized U - Unauthorized

Record Status C - Closed O - Open

Exit

5.4 Utilization Transaction Query

The 'Utilization Transaction Query' screen allows you to query for records based a customer number. The total number of exposure for the customer can be viewed. It also shows the Sum of Amount Utilization in local currency/ branch currency.

You can invoke the 'Utilization Transaction Query' screen by typing 'GESQSLIA' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Summary

Liability No Branch

Line Code Utilization Currency

Branch Code Customer Number

Search Advanced Search Reset

Records per page 15 1 Of 1 Go to Page

Liability No	Liability Name	Branch	Liability Currency	Overall Limit	Line Code	Serial No	Utilization Amount	Utilization Currency	Branch Co
--------------	----------------	--------	--------------------	---------------	-----------	-----------	--------------------	----------------------	-----------

Authorization Status A - Authorized U - Unauthorized

Record Status C - Close O - Open

Exit

5.5 Covenants Queries

You can perform the following queries for covenants in the system:

The 'Facility Covenants Query' allows you to query the covenants associated with a particular facility. Details including the line code, liability number, last revision date, notice days and so on for the covenant can be viewed.

You can invoke the 'Facility Covenants Query' screen by typing 'GESQFCNV' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Summary". It features a search form with the following fields:

- Covenant Name
- Liability No
- Serial No
- Grace Days
- Notice Days
- Due Date
- Covenant Reference Number
- Description
- Line Code
- Mandatory
- Revision Date
- Frequency
- Start Date

Below the search form are buttons for "Search", "Advanced Search", and "Reset". A "Records per page" dropdown is set to "15", and the status shows "1 Of 1". A "Go to Page" field is also present. The main area contains a table with the following columns: Covenant Name, Description, Liability No, Line Code, Serial No, Mandatory, Grace Days, Revision Date, Notice Days, Frequency, and Due Date. The table is currently empty. An "Exit" button is located at the bottom right of the window.

The 'Collateral Covenants Query' allows you to query the covenants associated with a particular collateral. Details including the collateral code, liability number, last revision date, notice days for the covenant can be viewed.

You can invoke the 'Collateral Covenants Query' screen by typing 'GESQCCNV' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Summary" with a blue header bar. The window contains the following elements:

- Search Criteria:** A grid of text input fields with dropdown arrows on the right. The fields are:
 - Covenant Name
 - Liability No
 - Mandatory
 - Revision Date
 - Frequency
 - Start Month
 - Description
 - Collateral Code
 - Grace Days
 - Notice Days
 - Due Date On
 - Covenant Reference Number
- Search Buttons:** Three buttons labeled "Search", "Advanced Search", and "Reset" are located below the search criteria.
- Table Controls:** A row of controls including "Records per page" (set to 15), navigation icons, "1 Of 1", and a "Go to Page" input field.
- Table Header:** A single row of column headers: "Covenant Name", "Description", "Liability No", "Collateral Code", "Mandatory", "Grace Days", "Revision Date", "Notice Days", "Frequency", "Due Date On", and "S".
- Table Body:** The main area of the window is currently empty, representing the data table.
- Exit Button:** A button labeled "Exit" is located in the bottom right corner of the window.

6. Reports

6.1 Introduction

This manual lists the details of various reports that you can generate for ELCM module of Oracle FLEXCUBE.

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.

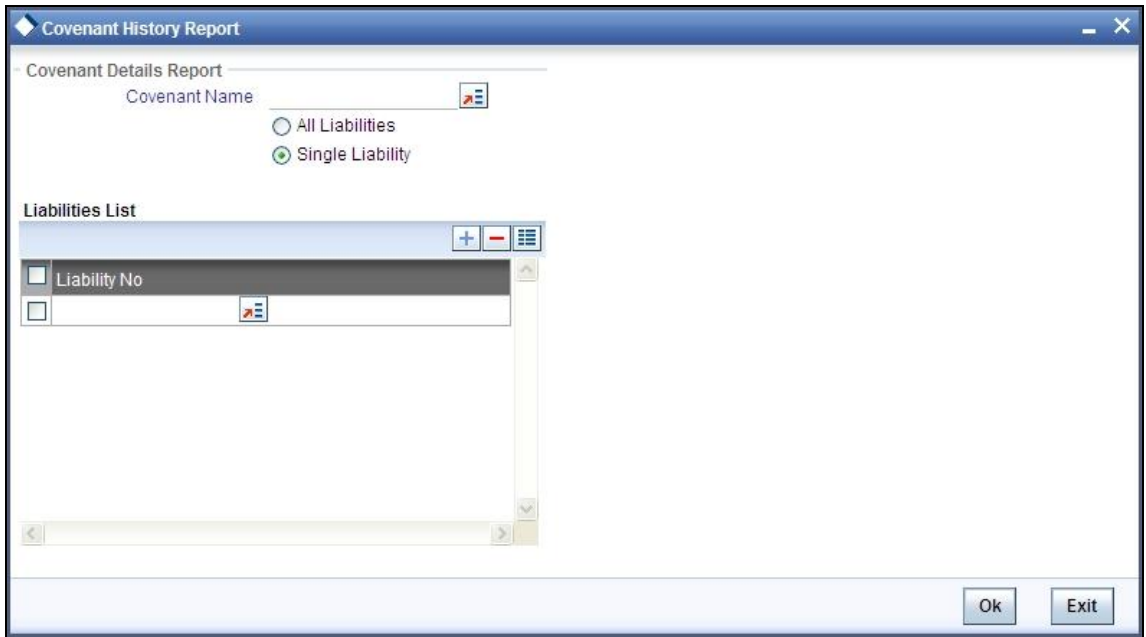
6.1.1 Generating Reports

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.

6.1.2 Generating Covenant History Reports

You can invoke The 'Covenant History Reports' screen by typing 'ELRPCONH' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



Covenanat Name

Select the covenanat name from the adjoining option list.

Liability Number

Select the liability number for which you want to rertive the covenanat data.

6.1.3 Contents of the Report

The contents of this report are discussed under the following heads:

Header

The Header carries the title of the report, information on the branch and branch date, user id, the date and time, the page number and module of the report.

Body of the report

This report contains details of:

Covenant Name	This is the name of the covenant.
Transaction Type	This is the facility or collateral type of transaction.
Mandatory	This is to specify whether the Covenant is mandatory or not.
Frequency	This is to specify the frequency of the Covenant submission.
Start Date	This is the start date of the covenant.
End date	This is the end date of the covenant.

Grace days	This is the grace days of the Covenant.
Notice days	This is the notice days of the Covenant.
Remarks	This is the additional comments associated with the covenant.

7. Annexure 1 - Utilization Transactions

7.1 Introduction

Utilization is a change in the Facility Available Amount. Whenever a contract is booked using a particular Line Code, then the respective line/main line's Available Amount should be altered in Oracle FLEXCUBE ELCM.

All utilization transactions maybe captured in their own external systems or through the 'Utilization Transaction' screen. The utilization details for each transaction taken place in the external product processor have to be sent to Oracle FLEXCUBE ELCM via Gateway online Inbound or Gateway Batch Inbound process.

Following utilizations transactions allowed by Oracle FLEXCUBE ELCM:

- New Utilization
- Increase Utilization
- Decrease Utilization
- Alter Utilization
- Reverse Utilization
- Mature
- Set balance
- Query Utilization

Each of the above utilization transactions (apart from Query transaction) has the following sub transactions:

- Input Utilization
- Authorize Utilization
- Delete Utilization
- Technical undo (Special delete)

7.2 New Utilization

The process wherein a facility is given to a customer and is utilized by the customer is called a Utilization Process. Utilization Process is termed as a New Utilization when the customer utilizes his facility in a new transaction.

A New Utilization Transaction can arise from any kind of transaction like Loan input, Letter of credit input, Bill/Collection input, foreign exchange deal input etc.

New utilization involves the following actions:

- Input Utilization
- Authorize Utilization
- Delete Utilization
- Technical undo (Special delete)

7.2.1 Input Utilization

New Utilization process increases the Utilization Amount and decreases the Available Amount for the associated Liability, Facility, or Exposure. If the Liability Facility, Sector Facility Or Country Facility has an associated Main Line then the utilization will reflect at all the parent levels.

Following data are input for a New Utilization transaction.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Source	AlphaNumeric(35)	Indicates the product processor name from where the transaction has been originated. This field will be as part of Header section (Source Code)	Yes
2	TxnID	AlphaNumeric(50)	Indicates the Transaction Id of the message. Transaction Id should be unique across the system. This information is captured as part of header.	Yes
3	Action	Alphabet (10)	Indicates the transaction type. This field will be as part of Header section (operation Code)	Yes
4	Utilization Branch	AlphaNumeric (3)	Indicates the transaction branch. This field will be as part of Header section (Branch code).	Yes
5	External Reference Number	AlphaNumeric(50)	Specifies the product processor reference number	Yes
6	Customer Number	AlphaNumeric(11)	Specifies the Customer Number of the utilization transaction. Customer Number entered should be valid Customer Number in Oracle FLEXCUBE ELCM system.	Yes
7	Liability Number	AlphaNumeric(11)	Specifies the Liability Number of the utilization transaction. Liability Number entered should be valid Liability Number in Oracle FLEXCUBE ELCM system.	Yes

SI No	Field Name	Data Type (size)	Remarks	Mandatory
8	Facility Code	AlphaNumeric(9)	Specifies the Facility Code of the utilization transaction. Facility Code entered should be valid Facility Code in Oracle FLEXCUBE ELCM system.	No
9	Facility Serial Number	Numeric (2)	Specifies the Facility Serial number of the utilization transaction	No
10	Utilization Amount	Numeric	Indicates the Utilization Amount	Yes
11	Utilization Currency	AlphaNumeric (3)	Indicated the currency of the utilization transaction. Currency code entered should be valid currency code in Oracle FLEXCUBE ELCM system.	Yes
12	Utilization Product	Alphabet (10)	Indicates External product code of the utilization transaction	No
13	Tenor Basis	Alphabet (1)	Indicates the tenor bases of the transaction	No
14	Tenor	Numeric	Indicates the tenor of the transaction	No
15	Maturity Date	Date	Specifies the maturity date of the transaction	No
16	Matured Amount	Numeric	Specifies the maturity amount of the transaction	No
17	Matured	Alphabet (1)	Indicates whether transaction is matured or Not.	No
18	Uncollected Amount	Numeric	Specifies the uncollected amount of the transaction	No
19	Amount Tag	Alphabet (20)	Indicates the type of the component of the transaction.	No
20	Module	Alphabet (10)	Indicates the module of the transaction	No

SI No	Field Name	Data Type (size)	Remarks	Mandatory
21	Transaction Initiated Date	Date	Indicates the date and time when the transaction was entered in product processor.	Yes
22	Value Date	Date	Specifies the Value date of the transaction. If value is not passed then system will default to Oracle FLEXCUBE ELCM present branch date.	No
23	Authorization Status	Alphabet (1)	Indicates whether transaction should be authorized online or not. Possible values are "A" (Authorize online) and "U" (upload transaction as unauthorized). Default value is U	No
24	Force Authorization	Alphabet (1)	Indicates whether transaction should ignore the overrides occurred in the process or not. Possible values "Y" (force authorize) and "N" (not force authorized). Default value is "N"	No
25	User ID	AlphaNumeric(11)	Specifies valid Oracle FLEXCUBE ELCM user id, who is performing the operation. This field will be as part of Header section (User ID)	Yes
26	Simulate	Alphabet(1)	Indicates if the transaction should be used only for simulation. Possible Values 'Y' (simulate) and 'N' (actual transaction). Default value is 'N'	No

SI No	Field Name	Data Type (size)	Remarks	Mandatory
27	Block Reference Number	Alphanumeric(50)	Specifies a valid block number for a facility. If liability and facility details for new utilization and the facility match, the earmarked amount corresponding to the block maintained for the facility is made available for the new utilization.	No

7.2.1.1 Validations for a New Utilization Process

Apart from the mandatory checks, system performs the following validations:

- Transaction ID should be unique
- Action code should be a valid Oracle FLEXCUBE ELCM action code
- Source and User should be valid in Oracle FLEXCUBE ELCM system and should have the rights to perform the action
- Utilization Branch - Branch code should be valid branch code
- Customer number should be a valid customer number
- Currency Code should be a valid currency code
- Liability Number should be a valid
- Facility code and Facility serial number should be valid

7.2.1.2 Overrides for New Utilization process

System raises overrides for the following actions

- Customer/Liability/Facility is unadvised
- Utilization Amount is greater than the available amount in both liability and facility levels
- Breach of Day Light Limit
- Breach Sector limit - This override will be raised only if Online Update option in Oracle FLEXCUBE ELCM parameters is enabled.

7.2.1.3 Credit Exception Management (Multi Authorization)

As part of the Utilization Transaction process, Oracle FLEXCUBE ELCM provides the Credit Exception Management feature. This process will be executed in the following case.

Inputted Transaction Amount Crosses Specified Limit

At facility maintenance level, you can specify what would be the Maximum Transaction amount, which can be processed without any RISK department approval. If the transaction amount is greater than the specified amount then system passes this transaction to Multi Authorization stage.

Example

Assume that facility has been maintained with following details

Liability No : TATA

Facility Name : PERLOAN
 Facility SI No : 1
 Facility currency : INR
 Limit amount : 1,00,000.00
 Utilized amount : 0
 Available amount : 1,00,000.00
 Max transaction amount : 10,000.00
 Max breach amount : 1,20,000.00

If the utilization amount is greater than 10,000.00 (INR) then the system passes these transactions to Multi authorization stage.

For more details, refer the section Credit Exception Management in the Process Flows document.

Inputed Transaction Amount Crosses the Breached Limit

At Facility Maintenance, you can specify a Maximum Breach Amount above which necessary approval is required from RISK department. If the transaction has been breached, i.e. the utilized and the breached amount are greater than the specified breached amount, then the system passes this transaction to Multi authorization stage.

In the above example, if the utilized amount is greater than 1,20,000.00 then the system passes these transactions to Multi Authorization stage. If the utilized amount is between 1,00,000 and 1,20,000 then the system throws an override.

Note: If transaction is Force Authorized then the system will upload the transaction as authorized and the system will send the information to RISK department. RISK department can't reject this transaction.

For more details, refer the section Credit Exception Management in the Process Flows document.

7.2.2 Authorize Utilization

A New Utilization transaction can be entered as Authorized Online or Unauthorized. If the transaction is not authorized online, then Oracle FLEXCUBE ELCM provides the facility to authorize the inputed transaction.

Apart from the Gate Way header information, Authorization process will require following the information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number.	No

SI No	Field Name	Data Type (size)	Remarks	Mandatory
			This tag would indicate which component needs to be authorized.	

7.2.3 Delete Utilization

A New Utilization Transaction can be inputted as Authorized Online or Unauthorized. If transaction is not authorized online, then Oracle FLEXCUBE ELCM provides the facility to delete the inputted transaction.

Apart from the Gate Way header information, delete process would require the following information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number. This tag would indicate which component needs to be deleted.	No

7.2.4 Technical Undo (Special Delete)

This feature of gateway will allow the external system to rollback previous inputted transaction in Oracle FLEXCUBE ELCM. This feature will be supported in Gateway Inbound (online), information required as part of Technical undo is also Transaction Id of the previous transaction.

Note: As part of technical undo transaction information related to header needs to be passed and in body only previous Transaction ID needs to be passed.

Refer the Gateway Maintenance user manual for more details.

7.3 Increase/Decrease Utilization

Increase/Decrease utilization transaction would be used to modify the utilization amount of the transaction. This transaction will be used when customer is making payment for the loan or when the loan amount is modified.

Apart from the GW header information, system requires following information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number. This tag would indicate which component needs to be modified.	No
10	Modified Utilization Amount	Numeric	Indicates the Increase/Decrease Utilization Amount	Yes
11	Utilization Currency	AlphaNumeric (3)	Indicated the currency of the utilization transaction. Currency code entered should be valid currency code in Oracle FLEXCUBE ELCM system.	No
21	Transaction Initiated Date	Date	Indicates the date and time when the transaction was entered in product processor.	Yes
22	Value Date	Date	Specifies the Value date of the transaction.	No
23	Authorization Status	Alphabet (1)	Indicates whether transaction should be authorized online or not. Possible values are "A" (Authorize online) and "U" (upload transaction as unauthorized). Default value is U	No
24	Force Authorization	Alphabet (1)	Indicates whether transaction should ignore the overrides occurred in the process or not. Possible values "Y" (force authorize) and "N" (not force authorized). Default value is "N"	No

SI No	Field Name	Data Type (size)	Remarks	Mandatory
25	Simulate	Alphabet(1)	Indicates if the transaction should be used only for simulation. Possible Values 'Y' (simulate) and 'N' (actual transaction). Default value is 'N'	No

7.3.1 Validations for Modify Utilization Process

Apart from the mandatory checks, system performs the following validations

- Utilization Reference Number: If this value is passed, then the system will check whether it is a valid utilization reference number and the system would modify this reference number.
- External Reference Number: If Oracle FLEXCUBE ELCM Utilization Reference Number is not passed, then the system has to pass an External Reference Number. Based on this number the system would retrieve the Oracle FLEXCUBE ELCM utilization reference number.

Other processing would be same as New Utilization Process.

7.4 Alter Utilization

Alter Utilization is used to modify the entire utilization transaction details. As part of Alter Utilization the external system should give the entire latest utilization details. Oracle FLEXCUBE ELCM will internally reverse previous transaction and upload alter utilization as the new utilization.

Example

Assume that loan has been created in the external system. As a part of loan creation, new utilization has been uploaded in Oracle FLEXCUBE ELCM. When loan parameters like product code, tenor of loan, customer etc. has to be changed then the loan transaction will be modified and subsequently Alter Utilization needs to be passed to the Oracle FLEXCUBE ELCM system.

Increase/decrease utilization would only modify only the utilization amount.

7.4.1 Input Alter Utilization

Oracle FLEXCUBE ELCM will internally reverse the previous transaction and upload Alter Utilization as a new utilization. New Utilization process will increase the utilization amount and decrease the available amount for the associated liability, liability facility, sector facility and country facility.

If the liability facility, sector facility or country facility has an associated Main Line then the utilization will be recored at all the parent levels.

Following data will be captured for a Alter Utilization transaction.

SI No	Field Name	Data Type	Remarks	Mandatory
-------	------------	-----------	---------	-----------

SI No	Field Name	Data Type	Remarks	Mandatory
1	Source	AlphaNumeric(35)	Indicates the product processor name from where the transaction has been originated. This field will be as part of Header section (Source Code)	Yes
2	TxnID	AlphaNumeric(50)	Indicates the Transaction Id of the message. Transaction Id should be unique across the system. This information is captured as part of header.	Yes
3	Action	Alphabet (10)	Indicates the transaction type. This field will be as part of Header section (operation Code)	Yes
4	Utilization Branch	AlphaNumeric (3)	Indicates the transaction branch. This field will be as part of Header section (Branch code).	Yes
5	External Reference Number	AlphaNumeric(50)	Specifies the product processor reference number	Yes
6	Customer Number	AlphaNumeric(11)	Specifies the Customer Number of the utilization transaction. Customer Number entered should be valid Customer Number in Oracle FLEXCUBE ELCM system.	Yes
7	Liability Number	AlphaNumeric(11)	Specifies the Liability Number of the utilization transaction. Liability Number entered should be valid Liability Number in Oracle FLEXCUBE ELCM system.	Yes
8	Facility Code	AlphaNumeric(9)	Specifies the Facility Code of the utilization transaction. Facility Code entered should be valid Facility Code in Oracle FLEXCUBE ELCM system.	Yes
9	Facility Serial Number	Numeric (2)	Specifies the Facility Serial number of the utilization transaction	Yes

SI No	Field Name	Data Type	Remarks	Mandatory
10	Utilization Amount	Numeric	Indicates the Utilization Amount	Yes
11	Utilization Currency	AlphaNumeric (3)	Indicated the currency of the utilization transaction. Currency code entered should be valid currency code in Oracle FLEXCUBE ELCM system.	Yes
12	Utilization Product	Alphabet (10)	Indicates External product code of the utilization transaction	No
13	Tenor Basis	Alphabet (1)	Indicates the tenor bases of the transaction	No
14	Tenor	Numeric	Indicates the tenor of the transaction	No
15	Maturity Date	Date	Specifies the maturity date of the transaction	No
16	Matured Amount	Numeric	Specifies the maturity amount of the transaction	No
17	Matured	Alphabet (1)	Indicates whether transaction is matured or Not.	No
18	Uncollected Amount	Numeric	Specifies the uncollected amount of the transaction	No
19	Amount Tag	Alphabet (20)	Indicates the type of the component of the transaction.	No
20	Module	Alphabet (10)	Indicates the module of the transaction	No
21	Transaction Initiated Date	Date	Indicates the date and time when the transaction was entered in product processor.	Yes
22	Value Date	Date	Specifies the Value date of the transaction. If value is not passed then system will default to Oracle FLEXCUBE ELCM present branch date.	No
23	Authorization Status	Alphabet (1)	Indicates whether transaction should be authorized online or not. Possible values are "A" (Authorize online) and "U" (upload transaction as	No

SI No	Field Name	Data Type	Remarks	Mandatory
			unauthorized). Default value is U	
24	Force Authorization	Alphabet (1)	Indicates whether transaction should ignore the overrides occurred in the process or not. Possible values "Y" (force authorize) and "N" (not fore authorized). Default value is "N"	No
25	User ID	AlphaNumeric(11)	Specifies valid Oracle FLEXCUBE ELCM user id, who is performing the operation. This field will be as part of Header section (User ID)	Yes
26	Simulate	Alphabet(1)	Indicates if the transaction should be used only for simulation. Possible Values 'Y' (simulate) and 'N' (actual transaction). Default value is 'N'	No

7.5 Reverse Utilization

Reverse Utilization transaction is used to reverse an authorized utilization transaction. This is used when user/customer wants to close the transaction.

7.5.1 Input Reverse Utilization

Apart from the Gate Way header information, the system requires following information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number. This tag would indicate which component needs to be modified.	No
10	Modified Utilization Amount	Numeric	Indicates the Increase/Decrease Utilization Amount	Yes
11	Utilization Currency	AlphaNumeric (3)	Indicated the currency of the utilization transaction. Currency code entered should be valid currency code in Oracle FLEXCUBE ELCM system.	No
21	Transaction Initiated Date	Date	Indicates the date and time when the transaction was entered in product processor.	Yes
22	Value Date	Date	Specifies the Value date of the transaction.	No
23	Authorization Status	Alphabet (1)	Indicates whether transaction should be authorized online or not. Possible values are "A" (Authorize online) and "U" (upload transaction as unauthorized). Default value is U	No

SI No	Field Name	Data Type (size)	Remarks	Mandatory
24	Force Authorization	Alphabet (1)	Indicates whether transaction should ignore the overrides occurred in the process or not. Possible values "Y" (force authorize) and "N" (not fore authorized). Default value is "N"	No
25	Simulate	Alphabet(1)	Indicates if the transaction should be used only for simulation. Possible Values 'Y' (simulate) and 'N' (actual transaction). Default value is 'N'	No

7.5.1.1 Validations for Modify Utilization process

Apart from the mandatory checks, system performs the following validations:

- Utilization Reference Number - If this value is passed, then the system will be check whether it is a valid utilization reference number. If so the system will reverse this reference number.
- External Reference Number - If Oracle FLEXCUBE ELCM utilization reference number is not passed then system has to pass an External Reference Number. Based on this number system will retrieve the Oracle FLEXCUBE ELCM utilization reference number and do the process.

Other processing will be same as New Utilization Process.

7.6 Set Balance of Utilization Transaction

Set Balance Transaction will be used when an external system processes the Utilization Transactions and then during EOD or some point of time the final balance of the utilization transaction is given to the Oracle FLEXCUBE ELCM system.

Oracle FLEXCUBE ELCM system will update the balance of the utilization transaction and subsequent difference in the utilization amount will be updated at liability, facility, sector and country levels. If there facility, sector and country has a main line associated with it, then the system will update the utilization details in all the main lines.

Apart from the Gate Way header information, system requires following information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number. This tag would indicate which component needs to be modified.	No
10	Modified Utilization Amount	Numeric	Indicates the Increase/Decrease Utilization Amount	Yes
11	Utilization Currency	AlphaNumeric (3)	Indicated the currency of the utilization transaction. Currency code entered should be valid currency code in Oracle FLEXCUBE ELCM system.	No
21	Transaction Initiated Date	Date	Indicates the date and time when the transaction was entered in product processor.	Yes
22	Value Date	Date	Specifies the Value date of the transaction.	No
23	Authorization Status	Alphabet (1)	Indicates whether transaction should be authorized online or not. Possible values are "A" (Authorize online) and "U" (upload transaction as unauthorized). Default value is U	No

SI No	Field Name	Data Type (size)	Remarks	Mandatory
24	Force Authorization	Alphabet (1)	Indicates whether transaction should ignore the overrides occurred in the process or not. Possible values "Y" (force authorize) and "N" (not fore authorized). Default value is "N"	No
25	Simulate	Alphabet(1)	Indicates if the transaction should be used only for simulation. Possible Values 'Y' (simulate) and 'N' (actual transaction). Default value is 'N'	No

7.6.1.1 Validations for Modify Utilization process

Apart from the mandatory checks, system performs the following validations:

- Utilization Reference Number - If this value is passed, then the system will be check whether it is a valid utilization reference number. If so the system will reverse this reference number.
- External Reference Number - If Oracle FLEXCUBE ELCM utilization reference number is not passed then system has to pass an External Reference Number. Based on this number system will retrieve the Oracle FLEXCUBE ELCM utilization reference number and do the process.

Other processing will be same as New Utilization Process.

7.7 Query Utilization

A Query Utilization transaction can be performed on all the Contracts. Here on query only the consolidated information about the contract will be provided.

Apart from the Gate Way header information, Query process will require following the information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes

SI No	Field Name	Data Type (size)	Remarks	Mandatory
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number. This tag would indicate which component needs to be authorized.	No
4	Simulate	Alphabet(1)	Indicates if the transaction should be used only for simulation. Possible Values 'Y' (simulate) and 'N' (actual transaction). Default value is 'N'	No

7.8 Mature Utilization Transaction

Mature Transaction will be used to set the mature amount for that the specified contract Utilization Transactions and then the amount specified will be treated as the matured amount for that contract.

Oracle FLEXCUBE ELCM system will update the mature amount of the utilization transaction.

Apart from the Gate Way header information, system requires following information.

SI No	Field Name	Data Type (size)	Remarks	Mandatory
1	Utilization Reference Number	AlphaNumeric (16)	Specifies Oracle FLEXCUBE ELCM utilization reference number.	No
2	External Reference Number	AlphaNumeric(50)	If the product processor does not have Oracle FLEXCUBE ELCM utilization reference number then it should pass the product processor reference number.	Yes
3	AmountTag	AlphaNumeric(20)	Amount tag would be required when there are multiple utilization for the same reference number. This tag would indicate which component needs to be modified.	No
10	Modified Utilization Amount	Numeric	Indicates the Increase/Decrease Utilization Amount	Yes

SI No	Field Name	Data Type (size)	Remarks	Mandatory
11	Utilization Currency	AlphaNumeric (3)	Indicated the currency of the utilization transaction. Currency code entered should be valid currency code in Oracle FLEXCUBE ELCM system.	No
21	Transaction Initiated Date	Date	Indicates the date and time when the transaction was entered in product processor.	Yes
22	Value Date	Date	Specifies the Value date of the transaction.	No
23	Authorization Status	Alphabet (1)	Indicates whether transaction should be authorized online or not. Possible values are "A" (Authorize online) and "U" (upload transaction as unauthorized). Default value is U	No
24	Force Authorization	Alphabet (1)	Indicates whether transaction should ignore the overrides occurred in the process or not. Possible values "Y" (force authorize) and "N" (not fore authorized). Default value is "N"	No

7.9 Utilization Transaction Screen

All utilization requests explained above can also be raised through the 'Limit Utilization' screen.

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

The screenshot shows the 'Utilization' window with the following fields and values:

- Utilisation Details:** Utilisation ID (empty), Utilisation Branch * (empty), User Reference Number * (empty), Limit Type (Liability).
- Transaction Details:** Customer Number * (empty), Utilisation Currency (empty), Utilisation Product (empty), Uncollected Amount (empty), Tenor Basis (checkbox), Tenor (empty), Maturity Date (empty), Matured Amount (empty), Amount Tag * (empty), Remarks (empty), Value Date (empty), Liability No (empty), Facility Block No (empty), Linkage Reference No (empty), Utilisation Amount (empty).
- Transaction Module:** AC
- Source:** ELCM
- Transaction date:** (empty)
- Simulate:**
- Liability Details:** Liability Currency (empty), Branch (empty), Liability Utilisation (empty).
- Limit Utilization Details:** Limit Ccy (empty), Limit Util (empty).

At the bottom, the 'Exposures' section includes:

- Input By:** (empty)
- Authorized By:** (empty)
- Contract Status:** Authorized
- Exit:** (button)

Utilisation Branch

Specify the branch where the utilization request should be processed. The adjoining option list contains all the branches maintained in the system. Select the appropriate one.

User Reference Number

Specify a unique reference number for the transaction.

Transaction Module

Specify the module for the transaction. The adjoining option list contains all the modules in the system. Select the appropriate one.

Transaction Date

Specify the date for the transaction.

Simulate

Check this box to indicate that the details for the transaction being entered should be used only for simulation and not stored permanently within the system. After a simulated transaction has been successfully put through, the system will display the utilized amount for the facility and the for the liability.

Customer Number

Specify a valid customer number for the transaction. The adjoining option list contains all the customers maintained in the system. Select the appropriate one.

Utilisation Amount

Specify the amount for the utilization transaction.

Utilisation Currency

Specify the currency for the amount entered. The adjoining option list contains all the currencies maintained in the system. Select the appropriate one.

Utilisation Product

Specify the product for the transaction. The adjoining option list contains all the relevant products. Select the appropriate one.

Uncollected Amount

Specify the amount that has not yet been collected from the customer.

Tenor Basis

Check this box to indicate that the utilization should be tracked tenor wise for the facility. You can specify the basis on which it is to be tracked in the 'Tenor' field.

Tenor

Enter the basis on which tenor tracking should be done for the utilization. You need to have checked the 'Tenor Basis' option before you can specify the basis here.

Maturity Date

Specify the date on which the transaction matures.

Amount Tags

Specify the component type for the transaction. The adjoining option list contains all the relevant tags. Select the appropriate one.

Remarks

Enter any additional remarks that you wish to maintain for this transaction. You can enter up to 255 characters.

Value Date

Specify the value date for the transaction.

Line Code

Specify the line code to be used for the transaction. The adjoining option list contains all the line codes allowed. Select the appropriate one.

Facility Block Reference Number

During a new utilization, you can specify a valid block reference number to increase the amount in a facility. On the basis of the block reference number, the system validates if the liability and facility details of the new utilization and the existing facility for which the block has been maintained match. If there is a match, it increases the amount available under the facility by unblocking the corresponding amount block for the facility and making it available for use by the new utilization.

Click the 'Exposures' button. In the screen that is displayed, you can specify the transaction exposures that the system should track while processing utilization requests. The system defaults the customer exposures.

Transaction Exposures		Customer Exposures	
Exposure Code 1	<input type="text"/>	Exposure Code 1	<input type="text"/>
Exposure Code 2	<input type="text"/>	Exposure Code 2	<input type="text"/>
Exposure Code 3	<input type="text"/>	Exposure Code 3	<input type="text"/>
Exposure Code 4	<input type="text"/>	Exposure Code 4	<input type="text"/>
Exposure Code 5	<input type="text"/>	Exposure Code 5	<input type="text"/>

Ok Exit

7.10 Reconciliation of Utilization Transactions

The Oracle FLEXCUBE Enterprise Limits and Collateral Management (hereafter referred to as Oracle FLEXCUBE ELCM) system receives Utilization Transactions (or contracts) from different external product processing systems. These external systems include Loans systems, Treasury systems, Trade and Finance systems and others. The bulk of the contract details will remain with these external systems and the only the details required for processing will be sent to Oracle FLEXCUBE ELCM.

During such Utilization Transactions, mismatch of details between the external product processor and Oracle FLEXCUBE ELCM may occur. To handle such mismatches, the Oracle FLEXCUBE ELCM system features an EOD Reconciliation Process to bring both system in sync by the end of the day.

EOD Reconciliation Process

As part of the EOD Reconciliation Process, an inbound transaction process happens wherein each product processor generates a batch file containing details pertaining to all the utilization requests for the day. The Oracle FLEXCUBE ELCM system will process these batch files as part of EOD batch operation and perform the reconciliation process.

The “Manual/System” parameter will specify whether the mismatched transaction should be handled manually by the user or the system should perform the reconciliation process

The system will read all the batch files for reconciliation and perform a comparison of all the transaction that has been performed in the product process with the utilization transactions performed in Oracle FLEXCUBE ELCM.

The following table shows the possible types of the mismatch.

Transaction Status in Product Processor/Oracle FLEXCUBE	Corresponding Utilization status in Oracle FLEXCUBE ELCM	Resulting Oracle FLEXCUBE ELCM Action
Not Saved	Saved	Reversal
Saved	Not saved	Upload

The above mentioned Oracle FLEXCUBE ELCM action is performed only if the system parameter has been set to 'System'.

Viewing Mismatch Summary

You can view in the mismatch Summary screen all the counter transactions that has been performed by Oracle FLEXCUBE ELCM for handling the mismatches. The summary also indicates whether the counter transactions have succeeded or failed.

For failed transactions, the reason for failure will be shown. You will have to take manual action in case of failed transactions.

7.11 Increasing/Decreasing Utilizations

You can modify the utilization amount of the transaction through the 'Utilization Increase And Decrease' screen. This transaction can be used when customer is making payment for the loan or when the loan amount is modified.

You can invoke the 'Utilization Increase and Decrease' screen by typing 'GEDUTNID' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Utilization Increase And Decrease". The window contains the following fields and controls:

- Utility Ref Number***: A text input field with a dropdown arrow icon.
- Utility Currency**: A text input field.
- Utility Amount**: A text input field.
- Limit Type**: A dropdown menu currently showing "Liability".
- Linkage Ref Number**: A text input field.
- User Reference Number**: A text input field.
- Amount Tag**: A text input field.
- Customer Number**: A text input field.
- Trans Date**: A date input field with a calendar icon.
- Transaction Init Date**: A date input field with a calendar icon.
- Value Date**: A date input field with a calendar icon.
- Action**: Two radio buttons, "Increase" (selected) and "Utilization Decrease".
- Details**: A button at the bottom left.
- Input By** and **Authorized By**: Text input fields.
- Date Time**: Labels for the input fields above.
- Exit**: A button at the bottom right.

Utilization Reference No

Specify the reference number for the utilization that you wish to modify. The adjoining option list contains all the utilizations in the system. Select the appropriate one. The system displays the user reference number, the utilization currency and the amount tag.

Utilization Amount

Enter the amount by which you wish to modify the utilization.

Action

Indicate the operation for the utilization – whether you would like to increase or decrease the utilization amount

Transaction Date

Specify the transaction date from the adjoining calendar.

Value Date

Specify the value date (the date on which the transaction comes into effect) for the transaction from the adjoining calendar. It can be the system date or a future date.

The 'Limit Utilization' screen will be displayed when you click on the 'Details' button where you can view the details of the original utilization request.

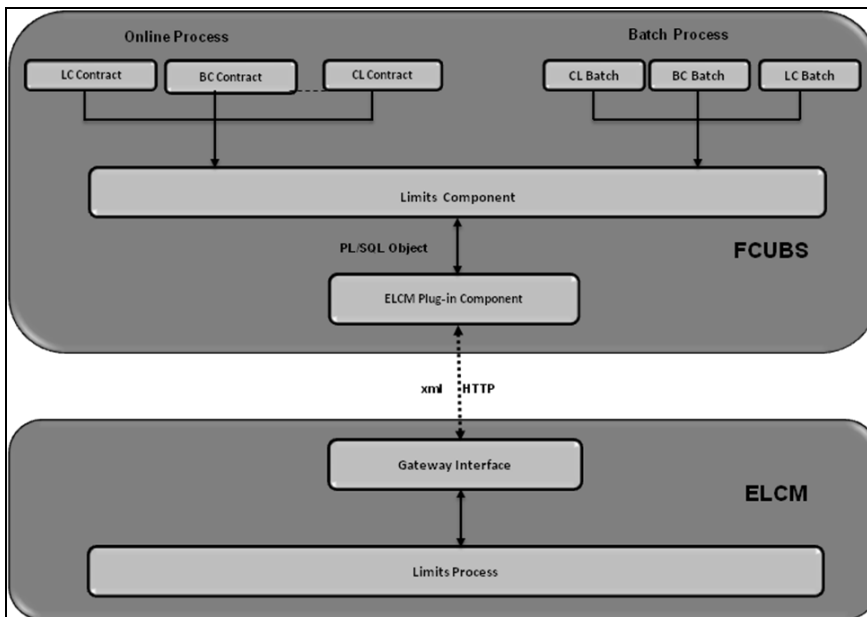
7.12 Linking an Utilization Transaction to a Facility

If you link an Oracle FLEXCUBE transaction to a facility, then based on the event of transaction corresponding, you need to process limits related data in Enterprise Limits and Collateral Management (ELCM) systems.

During processing if any error or override occurs in ELCM, then ELCM sends an error or override information to Oracle FLEXCUBE. Later Oracle FLEXCUBE will display the details to you. The Interface between Oracle FLEXCUBE and ELCM is online real time using HTTP and all transaction posted into ELCM is auto authorized. If delete or reversal action is triggered, the system will reverse the transaction in ELCM.

If a contact needs to be tracked under facility, then you have to link the contact to the facility and during transaction processing, Oracle FLEXCUBE sends the utilization details to ELCM for processing.

The below diagram briefs the Utilization Transaction Integration Approach flow between Oracle FLEXCUBE and ELCM:



The table below explains the actions you can perform for which Oracle FLEXCUBE hands-off utilization transaction to ELCM:

SI. No	Oracle FLEXCUBE Transaction Action	Utilization Transaction Action
1	New	New
2	Modify	Modify/ Increase/Decrease
3	Delete	Delete
4	Reverse	Reverse
5	Liquate	Liquate
6	Rollover	Rollover

Sl. No	Oracle FLEXCUBE Transaction Action	Utilization Transaction Action
7	Payment	Decrease

As part of the contract or transaction process, if a line code is linked to a contract then it is required to track the limits of the linked line. The system exposes limits process as subsystem and any module would interact with Limits subsystem.

The system allows you to trap all the utilization transaction. The system would interface with ELCM Gateway HTTP to upload the utilization transactions in ELCM. Based on the utilization event, the system creates utilization request in ELCM format. It also logs transaction data and status of each utilization transaction.

7.12.1 Collateral Pool Utilization Transaction Process

You are allowed to link collateral pool as part of contract and upload all collateral pool utilization transactions in ELCM. You can process the following events as part collateral pool utilization:

- New
- Modify
- Delete

The system allows you to plug the pool utilization data from Oracle FLEXCUBE and passes to ELCM using ELCM Gateway HTTP/WS communication channel.

7.12.2 Utilization Transaction Status

The following are the possible transaction status for utilization upload:

- Success
- Failure
- Override
- Dual Auth

7.12.2.1 Transaction Status Success

Oracle FLEXCUBE sends the utilization transaction to ELCM and while processing this transaction, if ELCM processes it completely, then this transaction would be considered as success. Oracle FLEXCUBE would continue to process remaining contract process.

During transaction process, if transaction is uploaded successfully in ELCM and if any error or overrides (overrides not accepted) occurs in Oracle FLEXCUBE then uploaded transaction is reverted back using technical undo feature of ELCM.

7.12.2.2 Transaction Status Failure

Oracle FLEXCUBE sends the utilization transaction to ELCM and while processing this transaction, if any error occurs, ELCM will send failure status with error details to Oracle FLEXCUBE.

ELCM plug-in updates the transaction error objects which ELCM error code, as part of transaction process. Later Oracle FLEXCUBE checks the error object and subsequently raises error as part of contract process.

As part of the transaction process, if ELCM process is failed then ELCM error details are displayed to the user.



Note the following:

- All error code of ELCM are available as part of the Oracle FLEXCUBE
- All ELCM error codes starts with 'EL'

7.12.2.3 Transaction Status Override

Oracle FLEXCUBE sends the utilization transaction to ELCM and while processing this transaction, if any override occurs, in such cases ELCM would generate override reference number (Multitrip ID) and log override details along with Multitrip ID for further reference. It marks the final transaction status as override and override details only with Multitrip ID is passed to Oracle FLEXCUBE for further processing.

ELCM plug-in would updates override details in Oracle FLEXCUBE error object it also logs the status and Multitrip ID as part of log table, later as part of transaction process Oracle FLEXCUBE checks the error object and subsequently raises transaction status as override.



If overrides occur as part of transaction process, then the system displays the override details to the user. You have an option to accept or reject the overrides.

If the override occurs as part of the request, XML Multitrip ID is also passed and this Multitrip ID is passed to ELCM as part of utilization transaction. As part of the utilization process in ELCM if same (previous transaction) overrides occurs, then it is accepted and the transaction will be saved.

7.12.2.4 Transaction Status Dual Auth

Oracle FLEXCUBE sends the utilization transaction to ELCM and while processing this transaction, if any of the validation requires authorization, then ELCM processes the transaction completely and sends dual auth details and marks the transaction status as Dual auth required.

ELCM plug-in updates dual auth details in error object, later as part of transaction process it updates dual auth details in Oracle FLEXCUBE tables. It updates the Auth status for the dual auth error code as 'U' – Unauthorized, if you try to authorize the contract, Oracle FLEXCUBE will check whether contract has any unauthorized dual-auth error code. If yes, the system does not allow contract to be authorized, till all dual-auth error codes are authorized.

In ELCM if any error code requires dual authorization, the system triggers credit exception management process flow. You are allowed to accept or reject the validation (dual-auth) error code. On accept or reject of the validation code, ELCM handoffs these details to JMS queue and ELCM out adapter is used to invoke Oracle FLEXCUBE WS for updating status of dual-auth error code.

7.12.2.5 Authorization of utilization transaction

All utilization transactions which are uploaded from Oracle FLEXCUBE are auto authorized and if contract or transaction is deleted in Oracle FLEXCUBE then ELCM would trigger the reversal transaction.

Example

Assume the following:

Liability 'COCACOLA' is created in ELCM with below details:

- Liability Code - COCACOLA
- Liability Currency - USD
- Overall Limit - 100,000,000
- Amount Utilized - 0

Customer 'C00001' is created in Oracle FLEXCUBE and Customer 'C00001' is linked in ELCM using liability 'COCACOLA' using customer liability linkage maintenance. Facility 'COCALOAN01' is created in ELCM with below details:

- Liability Code - COCACOLA
- Facility Code - COCALOAN01
- Facility currency - USD
- Limit Amount - 0
- Amount Utilized - Yes
- Revolving Flag - 1,000,000

Loan (CL module) has been inputted for customer 'C00001' created in Oracle FLEXCUBE with below details:

- Customer No - C00001
- Loan currency - USD
- Loan Amount - 500,000
- Value Date - 01-Mar-2008
- Maturity Date - 01-Sept-2008
- Facility Code - COCALOAN01

As part of loan processing, Oracle FLEXCUBE sends new utilization transaction to ELCM for the loan. As part of the utilization process ELCM updates utilized amount at facility level and liability level. The Liability details after loan transaction would be as below:

- Liability Code - COCACOLA
- Liability Currency - USD
- Overall Limit - 100,000,000
- Amount Utilized - 500,000

The Facility details after loan transaction is as below:

- Liability Code - COCACOLA
- Facility Code - COCALOAN01
- Limit Amount - USD
- Facility currency - 1,000,000
- Amount Utilized - 500,000
- Revolving Flag - Yes

Assume that you have paid the first installment of amount 100,000 (principal) using CL payment screen in Oracle FLEXCUBE and after processing the transaction, the liability and facility details would be as below:

- Liability Code - COCACOLA
- Liability Currency - USD
- Amount Utilized - 100,000,000
- Overall Limit - 400,000



Since line linked to loan is revolving, as part payment transaction ELCM would reduce amount utilized.

The facility details after processing the loan transaction is as below:

- Liability Code - COCACOLA
- Facility Code - COCALOAN01
- Facility currency - USD
- Limit Amount - 1,000,000
- Amount Utilized - 400,000
- Revolving Flag - Yes

8. Annexure 2 - Value Dated Facility

8.1 Introduction

Oracle FLEXCUBE ELCM provides a feature to maintain Facility details based on a particular value date. This is called the Value Dated Facility. This facilitates the changes in the Limits Amount, Main Line Linkage etc. to take effect from the particular date.

Oracle FLEXCUBE ELCM also tracks all the Utilizations of the Facility based on the value date of the transaction. The utilizations will take effect from the value date of the transaction onwards.



Note the following:

- Tenor wise limits will continue to be based on booking date
- Booking dated limit revaluation only will be done
- Booking dated based overrides only will be provided
- No validations based on the value dated balances will be done
- Auto limits transfer / limits transfer will be based on booking date

8.2 Value Date Based Facility Maintenance

Oracle FLEXCUBE ELCM facilitates maintaining Facility details based on a particular value date. The changes in the Limits amount, Main line linkage etc. would take effect from the particular date.

The following parameters will be taken from the Facility Maintenance screen:

- Value date - Any valid date in the past can be maintained. No future valued records can be maintained and the value date cannot be before the conversion date.
- Main Line Code - It is the main line that the Line reports to. It will be validated that the main line in the Facilities maintenance (booking dated) is same as the main line in the latest record (value dated) in the maintenance.
- Limit Amount - The limit amount for the facility. It will be validated that the main line in the Facilities maintenance (booking dated) is same as the main line in the latest record (value dated) in the maintenance.

Whenever a new Limit Line is created, a new record will be automatically created by the system with the value date as the Limit Start Date. The Main Line and the Limit Amount will be same as the booking dated limit maintenance.

Whenever the Mainline or the Limit amount is changed in the facility, a new record will be created in the maintenance with value date as the application date. The mainline and limit amount values will be same as in the booking dated Limits maintenance. You can manually change the value to an older value date by clicking 'Value Date' button.

The 'Conversion Date' contains the date when facility was migrated from the external system to Oracle FLEXCUBE ELCM. In the Facility screen this date will be displayed.

Back Valued Static Maintenance Changes

The value dated utilization details will be rebuilt from the value date of the change whenever the following static maintenances are done:

- Limit Amount Change
- Mainline Sub Line Linkage

If the facility has been migrated then back valued static maintenance cannot be prior to the conversion date.

8.3 **Value Date Based Utilization Processing**

Oracle FLEXCUBE ELCM also tracks all the utilizations of the facility based on the value date of the transaction. The utilizations will take effect from the value date of the transaction onwards.

The following transactions are supported for Value dated processing:

- New utilization
- Increase utilization
- Decrease utilization
- Alter utilization

As part of the above utilization transactions, the Value Date will be the value date of the transaction. Updating of value dated utilization can be set to be online or to be a part of EOD process. This parameter is maintained in Oracle FLEXCUBE ELCM Parameter Maintenance.

- If the parameter is set to update Value Date online, then during the transaction process the Value Date utilization details will be updated online. Otherwise it will be updated during EOD process.
- In the case of main lines, the system will identify all the sub lines linked and track the utilization. This utilization will be tracked in addition to the contracts that are directly linked to the main line.

Refer Annexure – 1 for more details on Utilization Transactions.

8.3.1 **Back Valued Transactions**

The following back valued operations will cause a rebuild of value dated utilization details:

- New utilization
- Increase utilization
- Decrease utilization
- Alter utilization

If the utilization currency is not same as the line amount currency, then the system will convert the utilization into line amount currency and update the utilization. The exchange rate will be that of the value date of the utilization. So for back valued utilization the exchange rate on the value date of the back valued transaction will be used.

In case the Value Date is less than the conversion date, then the rebuild of balances will be from the conversion date only.

8.3.2 **EOD Processing**

If the value date update is not online, but as part of Facility EOD process, it would be updated as shown in the following examples.

Example

Let us consider a Loan of 1 Million USD. Value date 10-Jan-2005 Revolving Line

Step 1: Initiation - Utilization Log

S.no	Value date	Line code	Utilization	Component	Increase/decrease
1	10-Jan-05	LINE1	1000000	PRINCIPAL	Increase

Line Utilization

S.no	Value date	Line code	Utilization
1	10-Jan-05	LINE1	1000000

Step 2: Payment of 0.1M Principal value date 10-Feb-2005 - Utilization Log

S.no	Value date	Line code	Utilization	Component	Increase/decrease
1	10-Jan-05	LINE1	1000000	PRINCIPAL	Increase
2	10-Feb-05	LINE1	100000	PRINCIPAL	Decrease

Line Utilization

S.no	Line code	Value date	Utilization
1	LINE1	10-Jan-05	1000000
2	LINE1	10-Feb-05	900000

Step 3: Value dated amendment of 0.5M Principal increase value date 15-Feb-2005 - Utilization Log

S.no	Value date	Line code	Utilization	Component	Increase/decrease
1	10-Jan-05	LINE1	1000000	PRINCIPAL	Increase
2	10-Feb-05	LINE1	100000	PRINCIPAL	Decrease
3	15-Feb-05	LINE1	500000	PRINCIPAL	Increase

Line Utilization

S.no	Line code	Value date	Utilization
1	LINE1	10-Jan-05	1000000
2	LINE1	10-Feb-05	900000
3	LINE1	15-Feb-05	1400000

Step 4: Payment of 0.2M value date 10-mar-2005 - Utilization Log

S.no	Value date	Line code	Utilization	Component	Increase/Decrease
1	10-Jan-05	LINE1	1000000	PRINCIPAL	Increase

S.no	Value date	Line code	Utilization	Component	Increase/Decrease
2	10-Feb-05	LINE1	100000	PRINCIPAL	Decrease
3	15-Feb-05	LINE1	500000	PRINCIPAL	Increase
4	10-Mar-05	LINE1	200000	PRINCIPAL	Decrease

Line Utilization

S.no	Line code	Value date	Utilization
1	LINE1	10-Jan-05	1000000
2	LINE1	10-Feb-05	900000
3	LINE1	15-Feb-05	1400000
4	LINE1	10-Mar-05	1200000

Step 5: Reversal of Payment of 0.2M value date 10-mar-2005 on 15-mar-2005 - Utilization Log

S.no	Value date	Line code	Utilization	Component	Increase/decrease
1	10-Jan-05	LINE1	1000000	PRINCIPAL	Increase
2	10-Feb-05	LINE1	100000	PRINCIPAL	Decrease
3	15-Feb-05	LINE1	500000	PRINCIPAL	Increase
4	10-Mar-05	LINE1	200000	PRINCIPAL	Decrease
5	10-Mar-05	LINE1	200000	PRINCIPAL	Increase

Line Utilization - Step 6 Liquidation of Contract Value date 10-apr-2005 - Utilization Log

S.no	Value date	Line code	Utilization	Component	Increase/decrease
1	10-Jan-05	LINE1	1000000	PRINCIPAL	Increase
2	10-Feb-05	LINE1	100000	PRINCIPAL	Decrease
3	15-Feb-05	LINE1	500000	PRINCIPAL	Increase
4	10-Mar-05	LINE1	200000	PRINCIPAL	Decrease
5	10-Mar-05	LINE1	200000	PRINCIPAL	Increase
6	10-Apr-05	LINE1	1400000	PRINCIPAL	Decrease

Line Utilization

S.no	Line code	Value date	Utilization
------	-----------	------------	-------------

S.no	Line code	Value date	Utilization
1	LINE1	10-Jan-05	1000000
2	LINE1	10-Feb-05	900000
3	LINE1	15-Feb-05	1400000
4	LINE1	10-Mar-05	1400000
5	LINE1	10-Apr-05	0

9. Annexure 3 – Revaluation

9.1 Introduction

Oracle FLEXCUBE ELCM caters to different types of currencies and collaterals backed by marketable securities. Exchange rates and the value of marketable securities are driven by market forces and hence tend to fluctuate over a period of time. Revaluation is essential to keep set limits realistic and to reflect the current market trends.

Revaluation can be of two types:

- Currency Revaluation - The changes in the exchange rates of currencies involved in the active contracts and collateral linked to the Facility affects the Credit Limit under the facility.
- Collateral Revaluation - A change in the market price of a marketable security backing collateral causes a revaluation of the collateral amount.

9.2 Currency Revaluation

Currency revaluation is triggered off as a result of the cases explained in the sections explained below.

9.2.1 Facility Currency and Utilization Currency

Consider that a change takes place in the exchange rate between the line currency and the currency of a contract utilizing the limit under the line. Due to this change in exchange rate revaluation takes place in two in the following two stages:

Stage 1 - Currency Revaluation occurs between utilized contract and the credit line of the facility

In the Currency Rates Screen of the Core services module, you can maintain exchange rates for currency pairs that your bank deals with. Along with this, you can also specify the Mid Rate and the Buy or Sell Spread for various currency pairs. After you update and authorize the new exchange rates, they become effective.

While defining a credit line for a facility, you have the option of maintaining currency restrictions for the line. If you do not specify currency restrictions for a facility, then contracts having currencies other than the facility currency, can utilize the limit under the credit line. The revaluation process is applicable for such a line.

If the above conditions hold good, then a change in the exchange rate will trigger of the revaluation process. The system calculates the Facility currency equivalent of all the contracts linked to the facility (using the new exchange rates) and updates the utilization and available amount under the line.

Example

You have defined a line for Loans, and linked the Liability Code Symphony Group to it. The credit limit assigned to the credit line is USD 100,000, the facility currency is USD. No currency restrictions have been maintained for the facility.

Liability Code	Line Code	Facility Limit	Facility Currency
Symphony Group	Loans	50,000	USD

On 01 January 2008 the following Loan contracts has been sent to Oracle FLEXCUBE ELCM system for utilization, which are linked to this Credit Line. At the time of saving these utilization details, the line utilization will be computed based on the exchange rates as of the transaction date (i.e. 01 January 2008) of these contracts. The following table contains the details.

Loan Amount	Exchange Rate	Facility Currency Equivalent (USD)	Utilization	Availability
AUD 15,000	1.50	22500.00	22500.00	27500.00
DEM 2,000	1.20	2400.00	2400.00	25100.00
GBP10,000	0.5	20000.00	20000.00	5100.00
INR 72,000	36.00	2,000.00	2,000.00	3100.00
Total			\$46900.00	\$3100.00

On 01 February 2008 the exchange rates have changed (now 1USD=1.6 AUD). After the exchange rate revision has been changed and authorized, the revaluation process(online process) scans the contracts linked to the line, converts the contract currency to the Facility currency (using the new exchange rates) and updates the line's utilization and available amount.

The following table indicates these details:

Loan Amount	Exchange Rate	Facility Currency Equivalent (USD)	Utilization	Availability
AUD 15,000	1.60	24000.00	24000.00	26000.00
DEM 2,000	1.20	2400.00	2400.00	23600.00
GBP10,000	0.5	20000.00	20000.00	3600.00
INR 72,000	36.00	2,000.00	2,000.00	1600.00
Total			\$48400.00	\$1600.00

Stage 2: Revaluation occurs between the facility and the liability which is linked to that facility.

Due to the currency revaluation between utilized contract and the credit line of the facility (as per **Stage 1**) there will be a revaluation on credit limit utilized by the liability.

Considering the same example as in Stage 1

You have defined a line for Loans, and linked the Liability Code Symphony Group to it. The credit limit assigned to the credit line is USD 100000. This liability is linked only to one Facility (or line code) Loans.

Initially before the change in the exchange rate the utilization of the liability is as shown in the table:

Liability Code	Line Code	Liability Limit	Liability Currency	Liability Utilization	Availability
Symphony Group	Loans	100,000	USD	\$46900.00	\$53100.00

After the change in the exchange rate between the line currency and the currency of a contract utilizing the limit under the line, due to this the utilization at the facility level is will changed. Due to this change the utilization at the Liability level also gets changed as shown in the table below:

Liability Code	Line Code	Liability Limit	Liability Currency	Liability Utilization	Availability
Symphony Group	Loans	100,000	USD	\$48400.00	\$51600.00

9.2.2 Facility Currency and Collateral Currency

Change in exchange rates between the Credit Line currency and the currency of the collateral.

When you update and authorize the exchange rates in the currency table, the system scans all the collateral linked to a line (bearing different currencies). The collateral contribution is then converted the into the line currency (using the latest exchange rates). After the conversion, the collateral contribution to the line is updated.

The calculated limit contribution of the collateral has to be linked to the pool. This pool containing the pool amount will be linked to the Facility. Hence any revaluation at collateral level will affect the pool amount.

Example:

You have defined a line for Loans on 01 January 2008, and linked the Liability Code Symphony Group to it. The credit limit assigned to the credit line is USD 100,000, the facility currency is USD. No currency restrictions have been maintained for the facility. Let us say that the Loans line has been backed by Collateral "ABC" and its maximum contribution amount that can be linked to the limit is GBP 10,000.

(1 GBP= 2 USD)

Collateral Code	Max. Collateral Contribution amount	Collateral Currency	POOL code	Pool Currency	Collateral Pool % linkage	Pool amount
ABC	10,000	GBP	Pool1	USD	100%	20,000

Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution	Line Avl. amount
Pool1	USD	Loans	USD	100%	\$20,000	\$120,000

On 01 February 2008 the exchange rates have changed. After the exchange rate revision has been changed and authorized, the revaluation process (online process) scans all the pools where this collateral has been linked and having the above exchange pair will be revaluated.

(1 GBP= 2.5 USD)

Collateral Code	Line Code	Max. Collateral Contribution amount	Collateral Currency	Pool code	Pool Currency	Collateral Pool % linkage	Pool amount
ABC	Loans	10,000	GBP	Pool1	USD	100%	15,000

Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount
Pool1	USD	Loans	USD	100%	\$15,000	\$115,000

The revaluation in both cases is triggered off automatically whenever there is a change in the exchange rates (i.e. online process).

The process explained above is an online process wherein the change in the currency exchange rate immediately revaluates all the contracts and the collaterals having this exchange pair with the facility currency. If at the Oracle FLEXCUBE ELCM Global Parameter maintenance, the option for Revaluate Currency during Offline (batch) has been selected then the currency revaluation as explained above will be taken up as part of revaluation batch process.

9.3 Collateral Revaluation

Collateral Revaluation will be of two types. These types are explained in the sections below.

9.3.1 Collateral Revaluation of Market Based Securities

The assets that are offered as collateral generally back the credit facilities that the bank grants a customer. Your customers can offer 'marketable securities' as collateral. As Marketable Securities are by nature given to fluctuations based on the forces of short-term demand and supply, their value also tends to fluctuate.

A rise or fall in the market value of a security, affects its collateral value. Therefore, the value of a collateral should reflect the changes in the value of the securities backing it.

Revaluation of a Collateral is caused only if the value of the marketable security that backs the collateral, fluctuates beyond the price sensitivity you prescribed for the security in the Securities Maintenance screen and the Revalue collateral check box has been checked for that collateral in the collateral maintenance. Based on these changes, the collateral contribution to the overall credit limit of the customer will increase or decrease. Hence the availability under the line will also change.

After you authorize the price change:

- The price change is compared with the last price stored in the Collateral Maintenance screen.
- If the price change (in percentage) of the security is greater than the Price-Increase-Sensitivity defined for the collateral or less than the Price-Decrease-Sensitivity defined for the collateral, the revaluation process will be triggered off. Otherwise the price change will not affect the existing collateral value.

If the revaluation causes the collateral value to raise, this new value is compared with the Cap Amount that you specified for the collateral in the Collateral Maintenance screen.

- If the computed value is less than the cap amount then the collateral contribution will be increased to that effect on account of the revaluation. The available amount under the credit line increases.
- If it exceeds the Cap amount then the cap amount will be taken as the collateral contribution.

Similarly, if the market price of the security decreases, the collateral contribution to the overall limit of the customer also decreases and as a result, the available amount under the credit line reduces.

Example

Your customer XYZ has 1000 units of Debentures'08 that have been issued by Reliance as part of her portfolio, which you consider as Collateral. The Market value of the Debentures'08 is \$ 50 per unit. You have defined the Price Increase and Decrease Sensitivity for this security to be 8% and 5% respectively. Let the customer have credit limit of USD 1 million for the facility of line code "Loans".

You have specified that this collateral's contribution to the overall Limit of the customer should be \$ 50,000.

The maximum amount that it can contribute to the overall limit of the customer as \$ 60,000 (Cap Amount).

Liability Code	Line Code	Liability Limit
Symphony Group	Loans	\$1million

Collateral Code	Collateral Contribution amount	Cap Amount	POOL code	Collateral Pool % linkage	Pool amount
ABB	\$50,000	\$60,000	Pool1	100%	\$50,000

Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount(credit limit + Pool contribution)
Pool1	USD	Loans	USD	100%	\$50,000	\$1.05million

A Rise in Value

The market value of Debentures2008 has increased to \$55, which is a 10% increase over the old market price of \$50.

At the time you update the Market price of Debentures 2008 in the Securities Maintenance screen, the revaluation process is triggered off, as the increase (10%) is higher than the Increase sensitivity (8%) defined for Debentures 2008. The value of this collateral now stands at \$ 55,000. As this amount is less than the Cap Amount you specified for the collateral the Credit Limit available to the XYZ has increased by \$ 5,000, as a result of the revaluation.

Collateral Code	Collateral Contribution amount	Cap Amount	POOL code	Collateral Pool % linkage	Pool amount
ABB	\$55,000	\$60,000	Pool1	100%	\$55,000

Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount
Pool1	USD	Loans	USD	100%	\$55,000	\$1.055 million

A Rise in Value beyond the Cap Amount

The market value of Debentures2008 has increased to \$65 which is a 30% increase over the old market price of \$50.

At the time you update the Market price of Debentures2008 in the Securities Maintenance screen, the revaluation process is triggered off, as the increase (30%) is higher than the Increase Sensitivity (8%) defined for Debentures 1999. The value of this collateral now stands at \$ 65,000. As this amount is more than the Cap Amount of \$60,000 that you specified for the collateral, the Credit Limit available to the XYZ will be increased. However, the increase will not exceed the Cap Amount.

XYZ's maximum amount that is contributed to the overall limit will now stand at \$ 60,000 (cap Amount) and not at \$65,000 (market value) as a result of the revaluation.

Collateral Code	Collateral Contribution amount	Cap Amount	POOL code	Collateral Pool % linkage	Pool amount
ABB	\$60,000	\$60,000	Pool1	100%	\$60,000

Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount
Pool1	USD	Loans	USD	100%	\$60,000	\$1.06 million

A fall in value

The market value of Debentures2008 has decreased to \$45, which is a 10% decrease from the old market price of \$50. At the time you update the Market price of Debentures2008 in the Securities Maintenance screen, the revaluation process is triggered off, as the decrease (11.11%) is higher than the decrease sensitivity (5%) defined for Debentures 1999.

The market value of this collateral now stands at \$ 45,000. XYZ's credit limit will stand decreased by \$ 5,000 as a result of the revaluation.

Collateral Code	Collateral Contribution amount	Cap Amount	POOL code	Collateral Pool % linkage	Pool amount
ABB	\$45,000	\$60,000	Pool1	100%	\$45,000

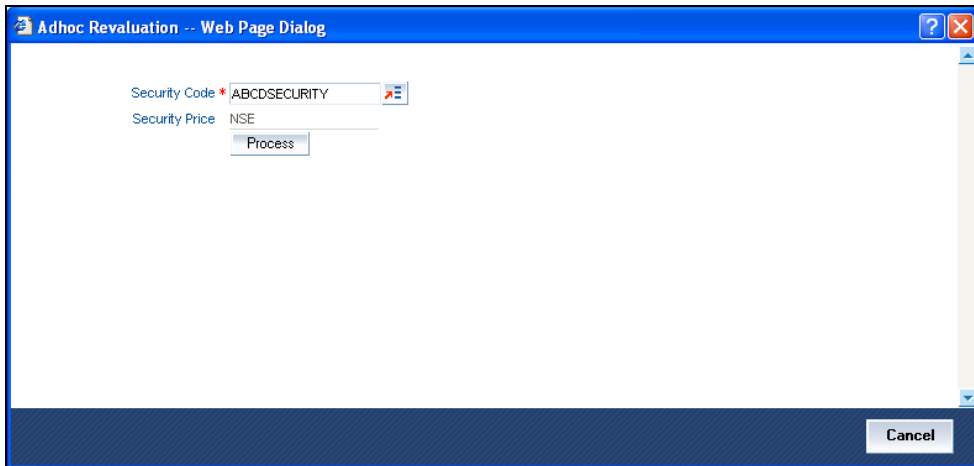
Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount
Pool1	USD	Loans	USD	100%	\$45,000	\$1.045 million

This process explained above is online process where in the change in the Security Price immediately revaluates all the collateral linked to these securities. If at the Oracle FLEXCUBE ELCM Global Parameter maintenance, the option for Revalue Collateral during Offline (batch) has been selected then the collateral revaluation as explained above will be taken up as part of revaluation batch process.

Adhoc Revaluation of Market Based Collaterals

In the 'Adhoc Revaluation' screen, specific market based collaterals can be chosen to forcefully run the revaluation process. If such collateral values have to be revised then an input file containing the latest security price has to be sent to system prior running the Collateral Force Revalue.



9.3.2 Collateral Revaluation of Non-Market Based Securities

Collateral revaluation of non-market based securities is not subjected to market fluctuation. Hence if such collateral values have to be revised then an input file containing the collateral code of all such collaterals and the latest revised collateral value must be sent to the system.

The revaluation process takes place online when ever there is a change in the collateral value.

Example:

Non market Based collateral Fixed Deposit (having 100% lendable margin) has been linked to a facility on 1st January 2008 owned by a XYZ customer having the liability Symphony Group.

Liability Code	Line Code	Liability Limit
Symphony Group	Loans	\$1million

Collateral Code	Collateral Value	Collateral Contribution amount	Pool code	Collateral Pool % linkage	Pool Amount
Fixed Deposit	\$50,000	\$50,000	Pool1	100%	\$50,000

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount
Pool1	USD	Loans	USD	100%	\$50,000	\$1.05million

Pool contribution to the line

After one Year on 1st January 2009 the Fixed Deposit amount has increased due to interest earned. Now having a revised value as \$55,000. Now the latest value has to be sent to the Oracle FLEXCUBE ELCM system via input file and then the “Collateral Force Revalue” for this collateral has to be triggered manually.

The revaluation increases the overall limit amount as shown below.

Liability Code	Line Code	Liability Limit
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Collateral Code	Collateral Value	Collateral Contribution amount	Pool code	Collateral Pool % linkage	Pool amount
Fixed Deposit	\$55,000	\$55,000	Pool1	100%	\$55,000

Symphony Group	Loans	\$1million
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Pool contribution to the line

Pool Code	Pool Currency	Line Code	Line Currency	Pool Line linkage %	Pool contribution amount to line	Line available amount(credit limit + Pool contribution)
Pool1	USD	Loans	USD	100%	\$55,000	\$1.055million

10. Annexure 4 - Gateway Processes & Interfaces

10.1 Introduction

The Oracle FLEXCUBE Enterprise Limits and Collateral Management (hereafter referred to as Oracle FLEXCUBE ELCM) system's Gateway processes allow seamless communication and integration with variety of other specialized applications. These other systems maybe deployed on different platforms and may use different infrastructure. The Gateway bridges the external system and the Oracle FLEXCUBE ELCM system.

Oracle FLEXCUBE Enterprise Limits and Collateral Management Gateway provides two main kinds of processes:

- Gateway Online process
- Gateway Batch process

10.2 Gateway Online Process

Gateway Online process provides following process:

- Online Inbound process
- Online Outbound process
- Embedded process

Following are the transactions supported by Gateway process:

- Maintenance transactions
- Utilization transactions
- Batch process

10.2.1 Maintenance Transactions

Below table specifies the maintenance transactions supported by Gateway Online Process

Transaction	Creation & Modification	Delete	Auth	Close & Reopen	Query	Notify	Tech. undo
Customer	Yes	Yes	Yes	Yes	Yes	No	No
Liability	Yes	Yes	Yes	Yes	Yes	No	Yes
Facility	Yes	Yes	Yes	Yes	Yes	No	Yes
Collateral	Yes	Yes	Yes	Yes	Yes	No	Yes
Collateral Pool	Yes	Yes	Yes	Yes	Yes	No	No
Issuers	Yes	Yes	Yes	Yes	Yes	No	No
Securities	Yes	Yes	Yes	Yes	Yes	No	No
Limits Transfer	Yes	Yes	Yes	Yes	Yes	No	No

Transaction	Creation & Modification	Delete	Auth	Close & Reopen	Query	Notify	Tech. undo
Account Service	Yes	Yes	Yes	Yes	Yes	No	No

10.2.2 Utilization Transactions

Below table specifies the Utilization transactions supported by Gateway Online Process

Utilization Transactions	Input	Authorization	Deletion	Technical undo
New Utilization	Yes	Yes	Yes	Yes
Increase Utilization	Yes	Yes	Yes	Yes
Decrease Utilization	Yes	Yes	Yes	Yes
Alter Utilization	Yes	Yes	Yes	Yes
Reverse	Yes	Yes	Yes	Yes
Set Balance	Yes	Yes	Yes	Yes
Query Utilization				

10.2.3 Batch Process

The Batch processes which can be triggered using Gateway Online Process:

- EOD Process
- Input File Process
- Output File Process

10.2.4 Reprocessing Locked Online Transactions

During the processing of Gate Way online transactions some of the transactions processing may be fail because of a lock in the database. Oracle FLEXCUBE ELCM provides a feature to process the locked records.

Example

Assume that New utilization transaction has been uploaded from Loan system and at the same time there is another New utilization transaction treasury system. Assume that country exposure for both the transaction is same and parameter for update country exposure online is set to "Yes". In this case first transaction would be processed and other transaction would be failed because of lock in the country exposure. To handle this case Oracle FLEXCUBE ELCM provides reprocessing for locked records.

10.2.5 Technical undo (Functional Rollback)

This feature of Gateway will allow the external system to rollback previously entered transactions in Oracle FLEXCUBE ELCM. This feature will be supported in Gateway Inbound (online), information required as part of Technical undo is also Transaction Id of the previous transaction. Technical undo is not supported for Query and Notification transactions.

10.3 Gateway Batch Process

Gateway Online processes are mainly used to process single transaction. Gateway Batch process will be used when high volume of data needs to be transferred from external system to Oracle FLEXCUBE ELCM system or vice versa. Communication format for the Gateway Batch process would be through ASCII file and data within the file is delimited with a Delimiter Character. All interface transaction file formats are predefined in the Oracle FLEXCUBE ELCM system.

Gateway Batch Process provides two kinds of process

- Batch Inbound Process
- Batch Outbound Process

10.3.1 Batch Inbound Process

Oracle FLEXCUBE ELCM Batch Inbound process is used to upload large records. As a batch operation the necessary input files will be fetched from the mentioned location path.

The Batch Inbound process can also be initiated from the following screen:

Batch Operations→In Bound Batch→detailed

The following operations (via input files) will be supported as an Input Files Batch Operations:

- Customer upload
- Utilization Upload
- Liability upload
- Facility upload
- Collateral upload
- Securities upload
- Rates upload

Utilization Upload

All the utilizations as part of Oracle FLEXCUBE ELCM Transaction functions are provided for as a part of Batch Inbound operations. Utilization upload allows more than one utilization record to be uploaded in a single upload process.

Liability Upload

Liability creation as a part of batch upload is provided for. Liability upload allows more than one Liability record to be uploaded in a single upload process.

Limits Upload

Limits creation as part of batch upload is provided for. Liability upload allows more than one Limits record to be uploaded in a single upload process.

Collateral Upload

Collateral creation as part of batch upload is provided for. Liability upload allows more than one Collateral record to be uploaded in a single upload process.

Securities Upload

Securities creation as part of batch upload is provided for. Liability upload allows more than one Securities record to be uploaded in a single upload process.

Customer Upload

Customer creation as part of batch upload is provided for. Liability upload allows more than one Customer record to be uploaded in a single upload process.

Rates Upload

Rates creation as part of batch upload is provided for. Liability upload allows more than one Rates record to be uploaded in a single upload process.

10.3.2 Batch Outbound Process

Oracle FLEXCUBE ELCM Batch Outbound process is used to upload large records. As a batch operation the necessary output files will be generated into the mentioned work path.

You can initiate the Batch Outbound Process using the following screen.

Batch Operations→Out Bond Batch→Detailed

The following operations will be supported as an Input Files Batch Operations.

- Utilization
- Liability
- Facility
- Collateral

Utilization Handoff (For the Current Day)

All the utilizations which have occurred during the day can be grouped into a file. This file is a part of batch handoff operation. This file will contain only the current day's utilization records.

Liability Handoff (Zero Based)

All the Liabilities created in Oracle FLEXCUBE ELCM can be grouped in to file via the Batch Facility Handoff. This handoff will contain all the details of the records.

Facility Handoff (Zero Based)

All the facilities created in Oracle FLEXCUBE ELCM can be grouped into file via the Batch Facility Handoff. This handoff will contain all the details of the records.

Collateral Handoff (Zero Based)

All the Collateral created in Oracle FLEXCUBE ELCM can be grouped into file via the Batch Facility Handoff. This handoff will contain all the details of the records.

10.4 Interfaces

The following interfaces are available as part of the Oracle FLEXCUBE ELCM system.

Module	Interface Name	Interface Type
Currency	Rates Interface	Online incoming
Core	Product Interface	Batch Incoming
Branch Holiday	Holiday Interface	Batch Incoming
SMS	User Interface	Batch Incoming
Account	Account Interface	Online Incoming
TD	TD Interface	Online/Batch Incoming
TD	TD block/unblock Interface	Online/Batch Outgoing
Core	Liability Link Interface	Online/Batch Outgoing
Limits	Facility Interface	Batch Outgoing
Limits	Utilization interface	Batch Outgoing
Limits	Dual Authorization	Online Outgoing

For more details on maintaining External Systems and Interfaces refer the chapter titled 'Gateway Maintenance'.

11. Screen Glossary

11.1 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
GEDACCNT	Account/Contract Balance For Netting
GEDADREV	Adhoc Revaluation
GEDBLOCK	EAR Marking Maintenance
GEDCOLCA	Collateral Category Maintenance
GEDCOLLT	Collaterals Maintenance
GEDCOLTY	Collateral Types Maintenance
GEDCOVNT	Covenant maintenance
GEDCREDIT	Credit Rating Maintenance
GEDCRSCR	Score Maintenance
GEDCULIK	Customer to liability link Maintenance
GEDDAUTH	Multi Authorisation Maintenance
GEDEXPBL	Global Exposure Block Maintenance
GEDFACTL	Facilities Maintenance
GEDISSUR	Issuer Maintenance
GEDMERGE	Liability Merger Maintenance
GEDMLIAB	Liability Maintenance
GEDMPOOL	Collateral Pools Maintenance
GEDMRGTR	Liability Merger Process
GEDPARAM	Global Exposure Parameter Detail
GEDQUEMN	Exception Queue Maintenance
GEDSECTY	Securities

Function ID	Function Description
GEDTAUTH	Transaction Authorize Maintenance
GEDTRANS	Facilities Amount Transfer Maintenance
GEDTRESP	Track Exposure Maintenance
GEDUDFNS	User Define Status Maintenance
GEDUTILS	Limit utilisation
GEDUTNID	Utilization Increase And Decrease
GESQCCNV	Collateral Covenants Query
GESQFCNV	Facility Covenants Query
GESQHLIA	Liability History Query
GESQLIAB	Liability Query
GESQSLIA	Utilization Transactions Query
GESQYFAC	Facilities Summary



Enterprise Limits and Collateral Management
[January] [2012]
Version 11.3.1.0.0LA

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