

User Defined Events User Guide

Oracle FLEXCUBE Universal Banking

Release 14.4.0.3.0

Part No. F38223-01

February 2021

User Defined Events User Guide
Oracle Financial Services Software Limited
Oracle Park

Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax: +91 22 6718 3001

<https://www.oracle.com/industries/financial-services/index.html>

Copyright © 2007, 2021, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Contents

1. Preface	1-1
1.1 Introduction.....	1-1
1.2 Documentation Accessibility.....	1-1
1.3 Organization	1-1
1.4 Glossary of Icons.....	1-1
1.5 Related Documents.....	1-1
2. User Defined Events	2-1
2.1 Introduction.....	2-1
2.2 Event Details	2-1
2.2.1 <i>Invoking User Defined Events Screen</i>	2-1
2.2.2 <i>Default Button</i>	2-4
2.2.3 <i>Value Date Derivation Button</i>	2-5
2.2.4 <i>Event Processing Button</i>	2-6
2.2.5 <i>Calculating the Commission on the Highest Outstanding Balance</i>	2-6
2.2.6 <i>Viewing Event Details</i>	2-7
2.3 Accounting Roles and Heads	2-11
2.3.1 <i>Invoking Accounting Roles and Heads Screen</i>	2-12
2.3.2 <i>Amount Tag Tab</i>	2-12
2.3.3 <i>Accounting Roles Tab</i>	2-16
2.4 User Defined Events.....	2-17
2.4.1 <i>Triggering User Defined Events Automatically</i>	2-17
3. Function ID Glossary	3-1

1. Preface

1.1 Introduction

This manual is intended as a guide to help you define User Defined events in FLEXCUBE. Besides this User Manual, you can find answers to specific features and procedures in the Online Help, which can be invoked, by choosing 'Help Contents' from the *Help* Menu of the software. 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 Documentation Accessibility

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





1.3 Organization

This manual is organized as follows:

Chapter	Description
Chapter 1	<i>About this Manual</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	<i>Building User Defined Events</i> explains how to define events in Oracle FLEXCUBE either for your own convenience or to suit the requirements of your bank.

1.4 Glossary of Icons

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

Icons	Function
	Exit
	Add row
	Delete row
	Option List

1.5 Related Documents

For further information on procedures discussed in the manual, refer to the Oracle FLEXCUBE manuals on:

- Core Services
- Common Procedures

2. User Defined Events

2.1 Introduction

A contract that you process in Oracle FLEXCUBE goes through different stages during its life cycle. These stages are defined as Events. Every new module that you maintain has to be associated with a set of events, which will be triggered at appropriate stages during the lifecycle of the contract.

Apart from the factory shipped events, you can create your own events as per the requirements of the bank.

This chapter contains the following sections:

- [Section 2.2, "Event Details"](#)
- [Section 2.3, "Accounting Roles and Heads"](#)
- [Section 2.4, "User Defined Events"](#)

2.2 Event Details

This section contains the following topics:

- [Section 2.2.1, "Invoking User Defined Events Screen"](#)
- [Section 2.2.2, "Default Button"](#)
- [Section 2.2.3, "Value Date Derivation Button"](#)
- [Section 2.2.4, "Event Processing Button"](#)
- [Section 2.2.5, "Calculating the Commission on the Highest Outstanding Balance"](#)
- [Section 2.2.6, "Viewing Event Details"](#)

2.2.1 Invoking User Defined Events Screen

You can define the events through the 'User defined Events' screen. You can invoke this screen by typing 'UDDEVMNT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

You can define events for a new module and also for existing modules in this screen.

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

User defined events will be linked to a product and is triggered in the life cycle of a contract, which is processed under that product.

Report Module

Specify the module for which you want to set up a user-defined event. The adjoining option list contains all the module codes available in the system. Select the appropriate one.

Event Code

Specify the event code that you want to set up for the module.

Event Description

Give a brief description of the event that you are defining. The description that you enter is for information purposes.

Accounting Entries Definition

Specify the accounting entries definition. You have the following options:

- Yes
- No

Advice Definition

Specify the advice entries definition. You have the following options:

- Yes
- No

UDE Advices Definition

Specify the UDE advice definition. You have the following options:

- Yes
- No

Association

Indicate your preferences.

Allow Charge

Specify the association allow charge. You have the following options:

- Yes
- No

Allow Transaction Tax

Specify the association allow transaction tax. You have the following options:

- Yes
- No

Application

Indicate your preferences. These fields will not be applicable if you have specified any one of the following in the 'Report Module' field:

- CL
- CI
- LE
- MO

Allow Charge

Specify the application allow charge. You have the following options:

- Yes
- No

Allow Transaction Tax

Specify the application allow transaction tax. You have the following options:

- Yes
- No

Liquidation

Indicate your preferences. These fields will not be applicable if you have specified any one of the following in the 'Report Module' field:

- CL
- CI
- LE
- MO

Allow Charge

Specify the liquidation allow charge. You have the following options:

- Yes
- No

Allow Transaction Tax

Specify the liquidation allow transaction tax. You have the following options:

- Yes

- No

2.2.2 Default Button

Click 'Default' button in the 'User Defined Events' screen to define the triggering parameters for the configured event.

The screenshot shows the 'Event Trigger' configuration window. It includes the following elements:

- Module Code ***: A text input field.
- Event Code ***: A text input field.
- Event Trigger**: Radio buttons for **Automatic** and **Manual**.
- Value Date Derivation**: A checkbox.
- Event Processing**: A checkbox.
- Execution Query**: A large text area for entering the query condition.
- Status Bar**: Displays 'Value Date Derivation | Event Processing'.

In this screen you can enter the following details below:

Module Code

The system displays the module code here.

Event Code

The system displays the event code here.

Event Trigger

The event, which you are defining, can be triggered in either of the following ways:

- **Automatic** – This means that the event should be triggered automatically during EOD.
- **Manual** - This means that the event should be triggered manually from the 'User Defined Event' triggering screen.

Value Date Derivation

Check this box to indicate that the value date derivation is defined for a particular event.

Event Processing

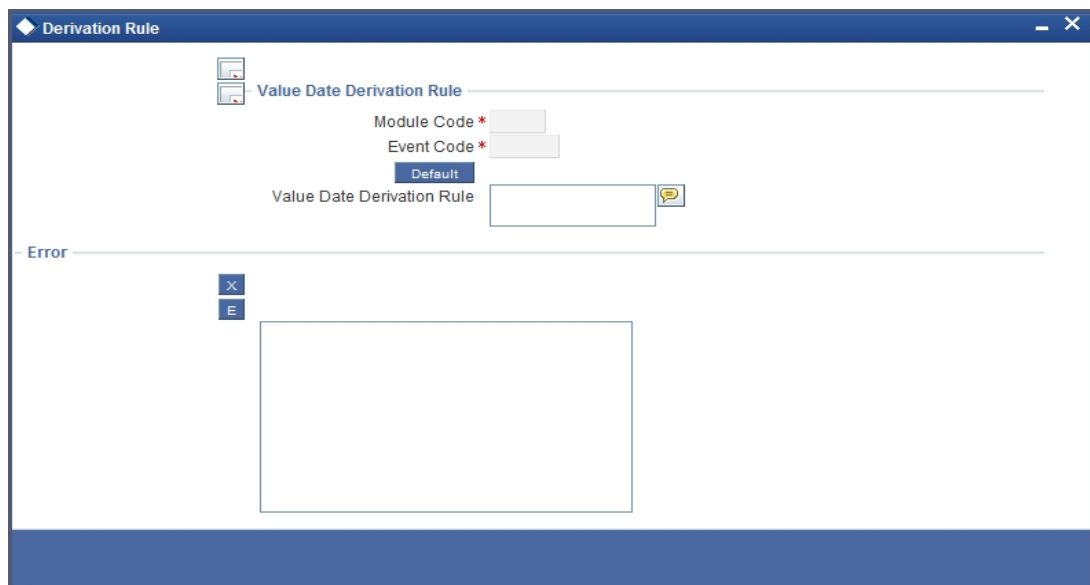
Check this box to indicate the event processing is defined for a particular event.

Execution Query

Enter the query condition to select the list of accounts for the execution of the event during EOD. Input to this field will be mandatory if you choose 'Automatic' triggering of the event.

2.2.3 Value Date Derivation Button

Click 'Value Date Derivation' button on the 'Event Trigger' screen and invoke the 'Derivation Rule' screen to specify the value date derivation logic.



The screenshot shows a window titled "Derivation Rule". Inside, there is a section for "Value Date Derivation Rule" with a "Default" button and a text input field. Below this is an "Error" section with "X" and "E" buttons and a large empty text area.

In this screen you can enter the following details:

Module Code

The system displays module code here.

Event Code

The system displays event code here.

Value Date Derivation Rule

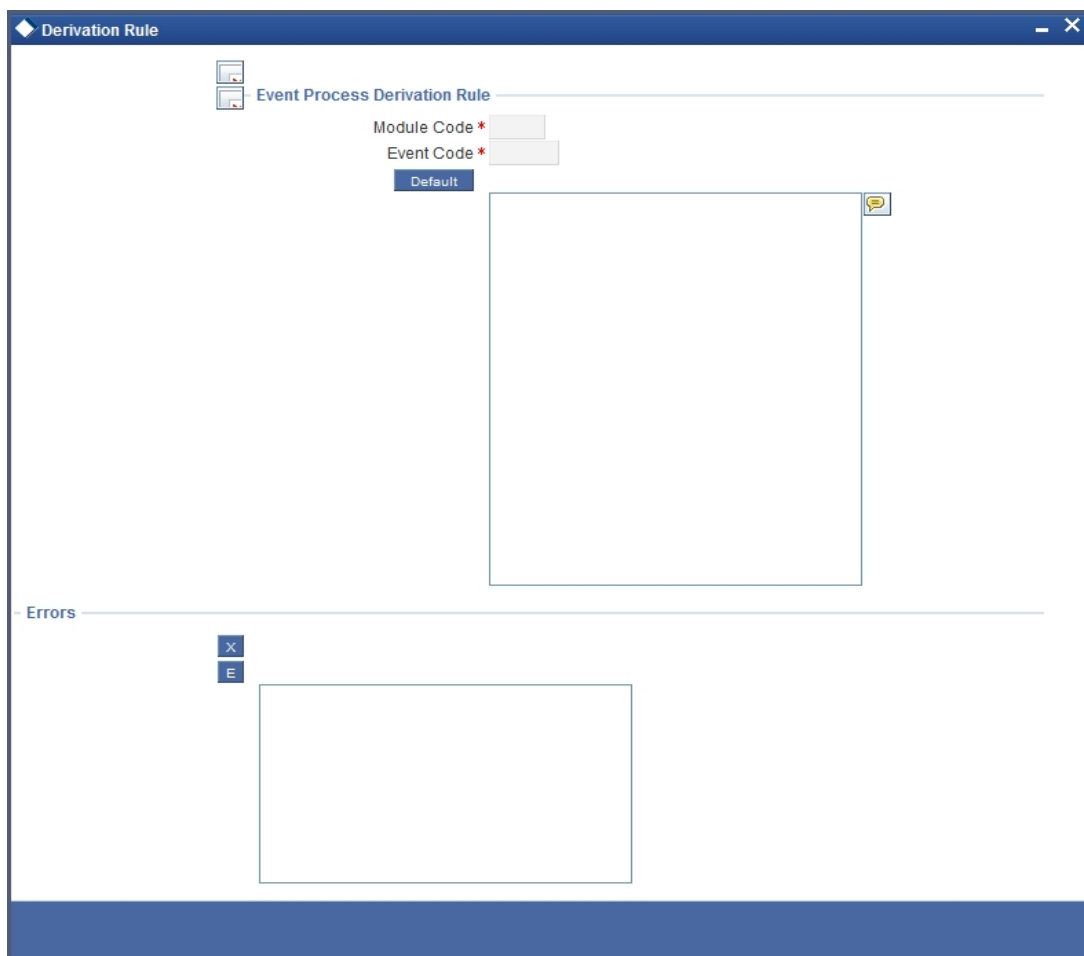
Enter description about the value date derivation rule. You need to assign a value to 'L_VAL_DT'. For instance, 'L_VAL_DT:=global.application_date'.

Error

Click 'X' button to execute the code. The derivation code will be validated by the system. If any checks fail, you must alter the statement so that the validation can be made successfully. Click 'E' button to view the errors.

2.2.4 Event Processing Button

Click 'Event Processing' button on the 'Event Trigger' screen and invoke the 'Derivation Rule' screen to assign values for processing of the event.



In this screen you can enter the following details:

Module Code

The system displays module code here.

Event Code

The system displays event code here.

Errors

Click 'X' button to execute the code. The derivation code will be validated by the system. If any checks fail, you must alter the statement so that the validation can be made successfully. Click 'E' button to view the errors.

2.2.5 Calculating the Commission on the Highest Outstanding Balance

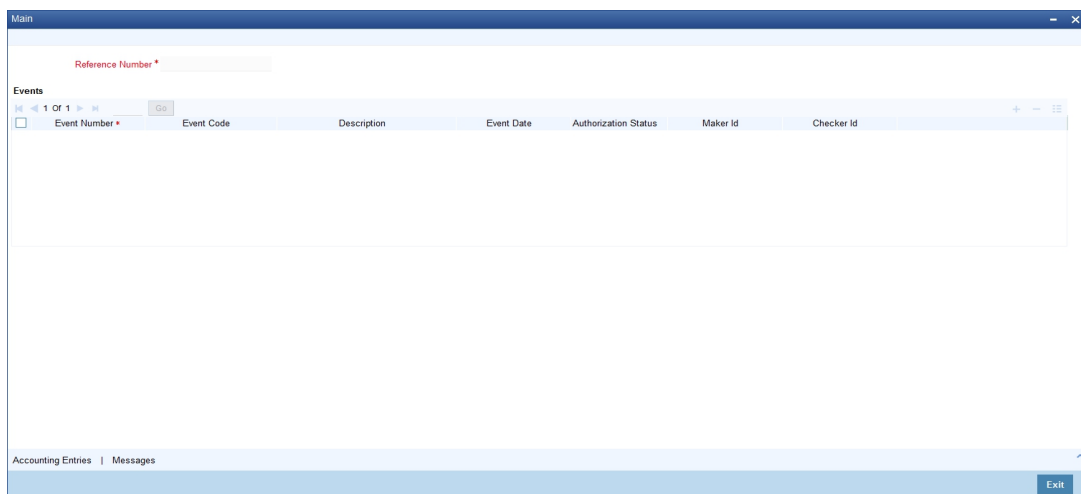
System uses UDE to calculate the commission on the highest outstanding balance of the loan and the mortgage Accounts.

You can define a UDE Highest Debit Balance Commission Event (HDBC) for computation of commission with following parameters:

- Event Trigger can be either Auto or Manual
- Apply Charge should be Yes
- Execution Query should be all accounts which satisfy the following criteria:
 - Account Status is Active
 - Outstanding Principal is greater than 0.00
- Value Date derivation rule to return the date as month-end
- This event is available at Loan and Mortgage product level.

2.2.6 Viewing Event Details

You can view the event details maintained in the 'User Defined Events' screen under 'Events' screen of a contract screen. You can invoke the 'Events' screen by typing 'CSDEVENT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



Reference Number

Specify the reference number.

The system displays the following details:

- Event Number
- Event code
- Description
- Event Date
- Authorization Status
- Maker Id
- Checker Id

2.2.6.1 Viewing Accounting Entries

You can view the accounting entries maintained for an event in the 'Accounting Entries' screen by selecting an event and clicking on 'Accounting Entries' button in the 'Events'

screen. To invoke the screen type 'CSDACENT' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Accounting Entries

Reference Number * See Position Entries Event Number * Event *

Accounting Entries Overrides

Accounting Entries

Event	Branch	Account	Account Description	Dr/Cr	Amount Tag	Account Ccy	Foreign Currency Amount	Rate	Local Currency Amount	Date	Value Date
-------	--------	---------	---------------------	-------	------------	-------------	-------------------------	------	-----------------------	------	------------

Accounting Under Process

Event	Branch	Account	Account Description	Dr/Cr	Amount Tag	Account Ccy	Foreign Currency Amount	Rate	Local Currency Amount	Date	Value Date
-------	--------	---------	---------------------	-------	------------	-------------	-------------------------	------	-----------------------	------	------------

Exit

Reference Number

Specify the transaction reference number

See Position Entries

Check this box to view currency position of the entries.

Event

Specify the event.

Event Number

The system displays the event number.

The following details are displayed in the Accounting Entries:

- Event
- Branch
- Account
- Account Description
- Dr/Cr
- Amount Tag
- Account Ccy
- Foreign Currency Amount
- Rate
- Local Currency Amount
- Date
- Value Date
- Txn Code

The following details are displayed in the Accounting Under Process:

- Event
- Branch

- Account
- Dr/Cr
- Amount Tag
- Account Ccy
- Foreign Currency Amount
- Rate
- Local Currency Amount
- Date
- Value Date
- Txn Code

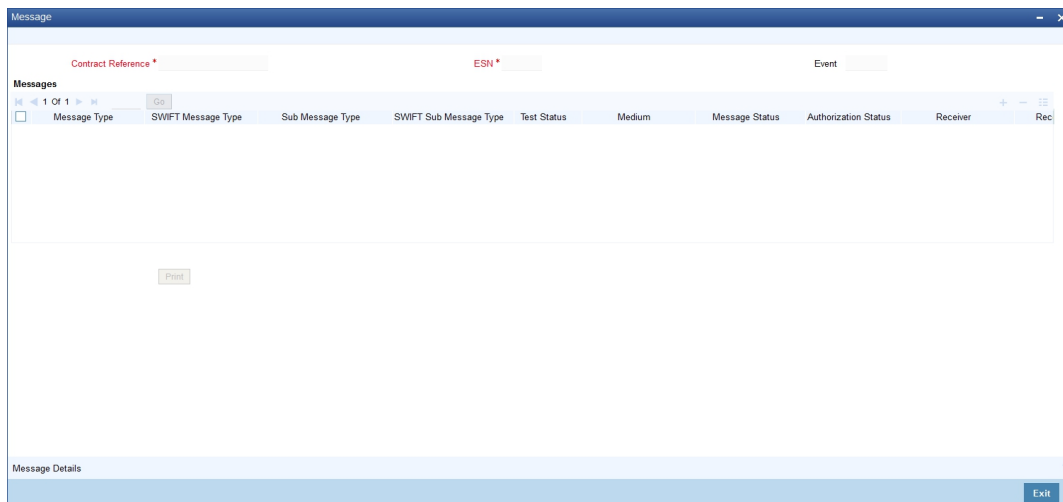
Override Details

Click on 'Overrides' button to view the override details of the accounting entries.

The screenshot shows a software window titled "Accounting Entries". At the top, there are input fields for "Reference Number" and "Event Number", each with a red asterisk indicating a required field. Below these is a "See Position Entries" button. The main area has a tabbed interface with "Accounting Entries" and "Overrides" tabs. The "Overrides" tab is active, showing a table with columns: "Overrides", "Override Status", "Authorized By", and "Auth Date Stamp". The table is currently empty. At the bottom right of the window is an "Exit" button.

2.2.6.2 Viewing Messages

You can view the messages by selecting an event and clicking on 'Messages' button in the 'Events' screen. To invoke the screen type 'CSDMSGVW' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.



The system displays the following details:

- Contract Reference
- ESN
- Event
- Message Type
- SWIFT Message Type
- Medium
- Message Status
- Authorization Status
- Receiver
- Receiver Name
- DCN

Message Details

You can view the details of a message by selecting a message from the 'Message' screen and clicking on 'Message Details' button.

Message

Reference Number Receiver/Sender Sub Message Type
DCN * Message Type SWIFT Sub Message Type
ESN/Version Number SWIFT Message Type

<< 1 of 1 >>

Message

Remarks Reject Reason Message Trailers

Exit

2.3 Accounting Roles and Heads

This section contains the following topics:

- [Section 2.3.1, "Invoking Accounting Roles and Heads Screen"](#)
- [Section 2.3.2, "Amount Tag Tab"](#)
- [Section 2.3.3, "Accounting Roles Tab"](#)

2.3.1 Invoking Accounting Roles and Heads Screen

You can define the amount tags for accounting roles through the 'Accounting Role and Head Maintenance' screen. You can invoke this screen by typing 'UDDRLTAG' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Amount Tag	Description	Charge	Accounting	Transaction Tax	Local Currency	Local Currency Equivalence
<input type="checkbox"/>		Yes	Yes	Yes	Average	

You can specify the following parameters for the module:

- Amount Tag
- Accounting Roles

2.3.2 Amount Tag Tab

This tab is displayed by default when you invoke the screen.

Amount Tag

Specify the amount tag.

Description

Enter the brief description for amount tag.

Charge

Indicate whether the amount tag pertains to a charge or not by choosing one of the following options:

- Yes
- No

Accounting

Indicate whether accounting entries are required or not by choosing one of the following options:

- Yes
- No

Transaction Tax

Indicate whether transaction tax is applicable or not by choosing one of the following options:

- Yes
- No

Local Currency

Indicate the local currency preference by choosing one of the following options:

- Average
- Equivalent

Local Currency Eq. Tag

Specify the amount tag for the local currency equivalent amount.

Click 'Derivation' button and invoke the 'Derivation Rule Details' screen to derive the amount and currency for the amount tag.

The screenshot shows the 'Derivation Rule Details' window. At the top, there are two input fields: 'Module Code *' and 'Amount Tag *'. Below these, there are two main sections: 'Amount Rule Derivation' and 'Currency Rule Derivation'. Each section has a 'Default' button and a text area. The 'Amount Rule Derivation' section also has an 'Amount Rule Type' checkbox and 'Execute' and 'Errors' buttons. The 'Currency Rule Derivation' section has a 'Currency Rule Type' checkbox and 'Execute' and 'Errors' buttons. The 'Errors' buttons are located below the text areas.

Here you can specify derivation logic for the following:

- Amount Rule
- Currency Rule

Module Code

The system displays module code here.

Amount Tag

The system displays the amount tag here.

Amount Rule Derivation

You can specify the following details.

Amount Rule Type

Check this box if the amount has to be derived based on a specified condition. The amount for a particular tag can be derived based on a condition.

Derivation Amount Rule

If you have checked against the option 'Amount Rule Type', the system will derive the amount for the amount tag that is being defined. You can use the following as variables while creating the derivation rule:

- Account Level UDF
- SDE

You can use any of the following SDEs:

- CUSTOMER_CATEGORY - Category of the customer of the loan
- CUSTOMER_ID - Customer ID
- LOAN_STATUS - Status
- ACCOUNT_CCY - Loan account's currency
- TODAY - Today
- NEXT_WORKDAY - Date of next workday
- PAYMENT_VALUE_DATE - Payment value date
- LAST_PAYMENT_DATE - Last payment date for the customer
- DAYS_FOR_NEXT_PMNT - Days for next payment
- AMOUNT_DISBURSED - Current disbursement amount
- COMMITMENT_UTILIZED - Utilized part of commitment
- EMI_AMOUNT - EMI AMOUNT
- NET_PRINCIPAL - Non-funded amount for which the loan is applied
- TOTAL_DUE_AMOUNT - Sum of all the Outstanding Balances for the Customer
- LAST_PAYMENT_AMOUNT - Last Payment Amount for the Customer
- CURRENT_PAYMENT_AMOUNT - Current Amount which is Due
- PAID_INTEREST_AMOUNT - Total Interest Amount Paid
- INTEREST_ACCRUED_AMOUNT - Sum of all the Accrued Amounts for Interest
- AMOUNT_NOT_DISBURSED - Amount Not Disbursed
- COMMITMENT_UNUTILIZED - Unutilized part of commitment
- TOTAL_PRINCIPAL - Amount for which the loan is applied
- TENOR - Duration for which the loan is applied
- LOAN_PRINCIPAL - Principal
- PRINCIPAL - Amount disbursed
- PRINCIPAL_OUTSTAND - Principal amount outstanding
- OVERDUE_MONTHS - OverDue Months
- TOTAL_OVERDUE_AMOUNT - Total Overdue amount for all components
- INS_TENOR - INSTALLMENT TENOR
- NO_OF_RPMNT_SCHS - Number of Non-Moratorium repayment schedules
- MORA_OUTSTANDING - Moratorium Outstanding Amount
- COMPOUND_VALUE - Amount Compounded

- TOTAL_MORA_AMOUNT - Total Moratorium Amount
- _OVR_DAYS - <Component> overdue days
- _EXPECTED - <Component> expected amount
- _OUTSTAND - <Component> outstanding amount
- _CCY - <Component> currency
- _OVERDUE - <Component> overdue amount
- _FN_NO_REPAY_SCH - <Component> number of schedules for a component if periodic
- _NET_PRINCIPAL - <Component> amount financed
- PROJECTED_AMOUNT - Projected Amount
- UIDB_DIFFERENTIAL - UIDB Differential
- BALLOON_AMOUNT - Balloon Amount
- RESIDUAL_AMOUNT - Residual Amount
- CAPITAL_AMOUNT - Capital Amount
- CLOSURE_AMOUNT - Closure Amount
- NET_MORTGAGE - Net Mortgage Amount

Assume that you have an account-level UDF called 'OSCHGRATE'.

The derivation rule using the SDEs and UDF may be given as under.

DECLARE

l_osprin_amt number;

rate number;

BEGIN

l_osprin_amt:=(@SDE_VAL#PRINCIPAL_OUTSTAND);

rate:=(@UDF_UD#OSCHGRATE);

l_amount:=rate * l_osprin_amt;

END

Amount Rule Error Description

Enter a brief description about amount rule error that should be displayed in case the derivation fails.

Currency Rule Derivation

The currency can either be derived from the existing account currency or can be maintained as a UDF field in the account or it can be hard-coded in the 'Currency Rule Definition' screen.

Currency Rule Type

Check this box if the currency for a particular amount tag has to be derived based on the derivation rule.

Derivation Currency Rule

Specify the rule based on which the system should derive the currency for the amount tag. You need to assign a value to 'L_CCY'. For instance, the rule may be given as under.

```

BEGIN
SELECT currency
INTO   l_ccy
FROM   cltb_account_master
WHERE  account_number = p_acc_no
AND    branch_code=p_branch;
END;
```

Currency Rule Error Description

Enter a brief description about currency rule error that should be displayed in case the derivation fails.

2.3.3 Accounting Roles Tab

Click 'Accounting Roles' tab in the 'Accounting Role and Head Maintenance' screen.

In this screen you can enter the following details:

Role Code

Specify the role code.

Description

Enter a brief description about role code.

Role Type

Select the role type from the adjoining drop-down list. The following values are available:

- Asset
- Liability
- Income

- Expense
- C Asset
- C Liability
- Customer

2.4 User Defined Events

This section contains the following topics:

- [Section 2.4.1, "Triggering User Defined Events Automatically"](#)

2.4.1 Triggering User Defined Events Automatically

You can add the user defined event batch to the mandatory programs to be run for the module, using the 'Mandatory Batch Program Maintenance' screen. You can invoke this screen by typing 'EIDMANPR' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

Module

Choose the module code from the adjoining option list.

Function Identification

Specify 'UDBATEVT' as the batch that needs to be run. You can also select this value from the adjoining option list.

End Of Cycle Group

Select the option 'End Of Transaction Input'.

Predecessors

You need to add the following batches as predecessors to the 'UDBATEVT' batch:

- CL batch (CLBATCH)
- Islamic CL batch (CIDBATCH)
- Leasing batch (LEDBATCH)
- Mortgage batch (MODBATCH)

For further details about this screen, refer the chapter 'Setting- up Mandatory Programs for EOD' in the AEOD User Manual.

This batch fetches the list of user defined events of the following modules for which the event triggering is set as 'Automatic':

- CL
- Islamic Financing
- Mortgages
- Leasing

It fetches valid accounts associated with the event by the executing the query defined for the event in the 'Event Trigger' screen. The settlement account and branch are defaulted from the settlement details maintained for the account. If these details are not maintained, they will be defaulted from the settlement details maintained for the 'Principal' component.

The system triggers the derivation rule maintained for the event to arrive at the value date of the event. The system then posts accounting entries to the respective GLs using the value date derived. The system also derives the amount and currency for each amount tag of the accounting entries defined for the event. The system allows you to link only payment advice 'CR_ADV, DR_ADV' to the user defined event. So if linked to an account, this advice will be generated.

3. Function ID Glossary

C

CSDACENT2-8
CSDACENT'2-8
CSDEVENT2-7
CSDMSGVW2-10

E

EIDMANPR 2-17

U

UDDEVMNT 2-1
UDDRLTAG 2-12