

User Defined Events
Oracle FLEXCUBE Universal Banking
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1. About this Manual

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.

1.1.1 Organization

This manual is organized as follows:





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.

1.1.2 Conventions Used in this Manual

Important information is preceded with the  symbol.

1.2 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

1.3 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.

2.2 Indicating the Event Details

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.

The screenshot shows a software window titled "Main Screen" with a "New" button in the top-left corner. The main area contains several form fields and sections:

- Report Module ***: A dropdown menu with a small icon to its right.
- Event Code ***: A text input field.
- Event Description**: A text input field.
- Accounting Entries Definition**: A section containing three dropdown menus, all set to "No":
 - Advice Definition
 - UDE Advices Definition
- Association**: A section containing two dropdown menus, both set to "No":
 - Allow Charge
 - Allow Transaction Tax
- Application**: A section containing two dropdown menus, both set to "No":
 - Allow Charge
 - Allow Transaction Tax
- Liquidation**: A section containing two dropdown menus, both set to "No":
 - Allow Charge
 - Allow Transaction Tax

At the bottom of the window, there are two tabs: "Fields" and "Default". Below the tabs is a status bar with the following elements:

- Input By**: A text field with a "Date Time" field below it.
- Authorized By**: A text field with a "Date Time" field below it.
- Modification Number**: A text field.
- Two checkboxes: "Authorized" and "Open".
- An "Exit" button.

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. Note that 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. Note that 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

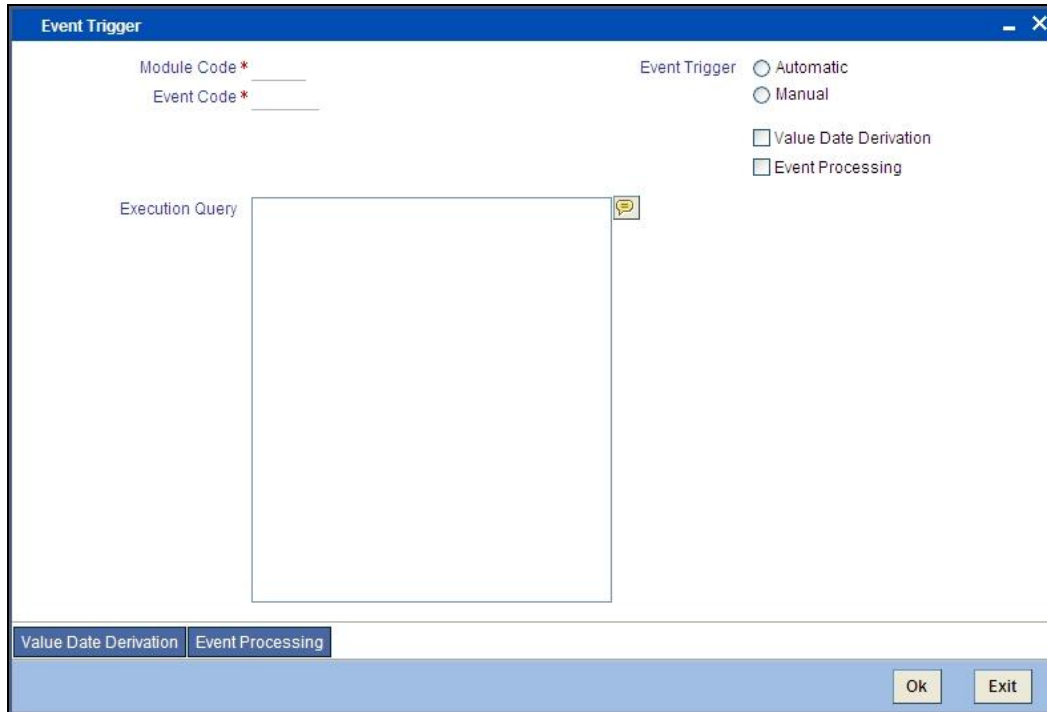
Allow Transaction Tax

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

- Yes
- No

2.2.1 Specifying Default Details

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



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

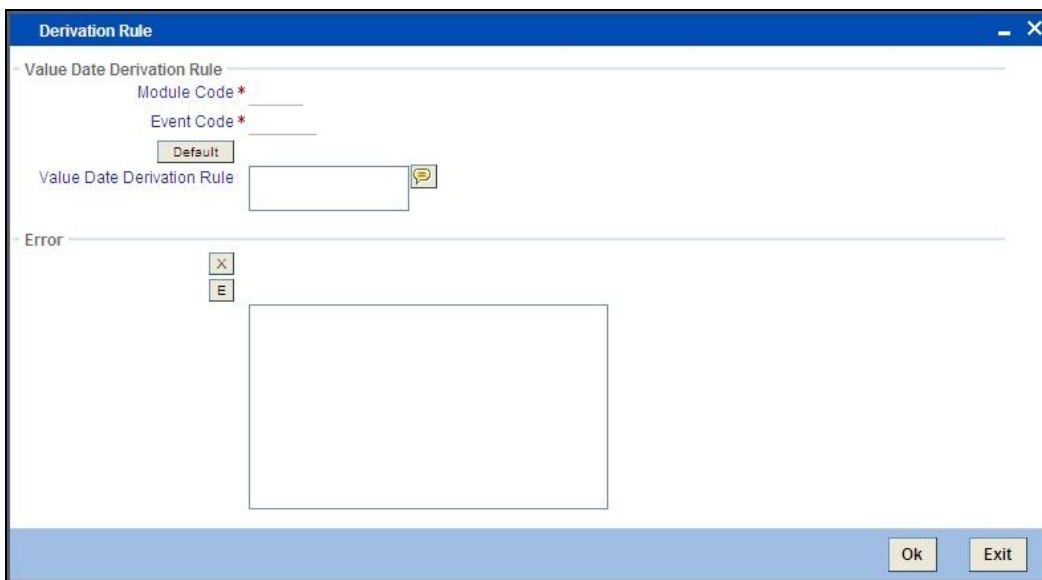
Check this box to indicate the event processing is defined for a particular event.

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.

2.2.2 Value Date Derivation

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 'Derivation Rule' dialog box. It features a title bar with 'Derivation Rule' and standard window controls. The main area contains the following elements:

- A text field labeled 'Value Date Derivation Rule' with a 'Default' button and a help icon to its right.
- Two text fields labeled 'Module Code *' and 'Event Code *'.
- An 'Error' section containing two buttons labeled 'X' and 'E', and a large empty rectangular area below them.
- 'Ok' and 'Exit' buttons at the bottom right.

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.

2.2.3 Event Processing

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

The screenshot shows a window titled "Derivation Rule". It contains the following elements:

- Event Process Derivation Rule (text field)
- Module Code * (text field)
- Event Code * (text field)
- Default (button)
- Large empty text area with a yellow speech bubble icon
- Errors (text field)
- X (button)
- E (button)
- Large empty text area
- Ok (button)
- Exit (button)

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.

2.2.4 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.

2.3 Maintaining Accounting Roles and Heads

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 Equivalent
<input type="checkbox"/>		Yes	Yes	Yes	Average	

You can specify the following parameters for the module:

- Amount Tag
- Accounting Roles

2.3.1 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 a window titled "Derivation Rule Details". At the top, there are two input fields: "Module *" and "Amount Tag *". Below these are two main sections. The left section is "Amount Rule Derivation" and the right is "Currency Rule Derivation". Each section contains a "Default" button, a checkbox for "Amount Rule Type" (or "Currency Rule Type"), a large text area for the rule, an "Execute" button, and an "Errors" button. At the bottom right of the window are "Ok" and "Exit" buttons.

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. Note that 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.

2.3.2 Accounting Roles Tab

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

The screenshot shows the 'Accounting Role and Head Maintenance' window. At the top, there is a 'New' button and two input fields: 'Module Code *' and 'Description'. Below these is a tabbed interface with 'Amount Tag' and 'Accounting Roles' tabs. The 'Accounting Roles' tab is active, showing 'Account Rule Details'. This section contains a table with three columns: 'Role Code', 'Description', and 'Role Type'. The 'Role Type' column has a dropdown menu currently set to 'Asset'. At the bottom of the window, there are three input fields: 'Input By Date Time', 'Authorized By Date Time', and 'Modification Number'. There are also two checkboxes labeled 'Authorized' and 'Open', and an 'Exit' button.

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 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.

The screenshot displays the 'Mandatory Batch Program Maintenance' application window. The interface includes several input fields and radio button options. The 'End of Cycle Group' section has radio buttons for 'Transaction Input', 'End of Transaction Input', 'End of Financial Input', 'End of Day' (which is selected), and 'Beginning of Day'. The 'Error Handling' section has radio buttons for 'Stop Automatic EOD Run' (selected) and 'Continue Automatic EOD'. The 'Frequency' is set to 'Daily' and the 'Holiday Rule' is 'Do Not Execute'. The 'Execution Layer' has radio buttons for 'Database' (selected) and 'Application'. The 'Sub Stage' is set to '1'. The 'Predecessors' table is currently empty. The bottom of the screen shows a 'Fields' section with 'Input By', 'Authorized By', and 'Modification Number' fields, and an 'Exit' 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. Screen Glossary

3.1 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
EIDMANPR	Mandatory Batch Program Maintenance
UDDEVMNT	User Defined Events
UDDRLTAG	Accounting Role & Head Maintenance



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Oracle Corporation
World Headquarters
500 Oracle Parkway
Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:
Phone: +1.650.506.7000
Fax: +1.650.506.7200
[www.oracle.com/ financial_services/](http://www.oracle.com/financial_services/)

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