

Development Workbench Performance Tuning Enhancements
Oracle FLEXCUBE Investor Servicing
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1 Preface

This document describes the LOVs Defining for handling the high volume data using Oracle FLEXCUBE Development Workbench for Universal Banking.

2 Introduction

This Document explains the steps to Definition/Modification of LOVs for handling high volume data using the Oracle FLEXCUBE Development Workbench for Universal Banking

3 List of Values

Oracle FLEXCUBE Development Workbench provides the developer with a user friendly console for defining a LOV's of FCUBS handling the high volume data with following parameters

Following parameters/features are introduced for handling such LOVs.

- Exact fetch
- Is Mandatory
- Minimum no of Search Character

3.1 Exact Fetch

If the Block field is of display type LOV, developer can choose the exact fetch parameter for search optimization (in High Volume).

If **exact fetch** parameter is selected, user has to provide the exact values of the field as it is present in Database; otherwise system will throw the error message as invalid value.

Wildcard Searches are not permitted

For Example: Entering 98712 in Account Number field will fetch value only if an account with that particular number exist .In Normal case all account numbers beginning with the search pattern would be retrieved.

Function Generation

Action: Load Function Id: FTDTRONL Save XML Path: Z:\EXEC\FLEX

Function Type: Parent Parent Function: Parent Xml:

Function Category: Transaction Header Template: None Footer Template: None

Search:

Block Field Properties

* Field Name: CRACC * Data Type: Varchar2 * Column Name: CR_ACCOUNT

Field Label: LBL_CRACC DataSource: FTTBS_CONTRACT_MAST

XSD Tag: CRACC Max Length: 20

Display Type: Lov * Field Size:

Item Type: Database Item Default Value:

Parent Field: Preview Value:

Related Block: Accesskey Code:

Related Field: Text Area Cols:

Text Area Rows: Max Val:

Min Val: Mask Id:

Max Decimals: Off Line LOV Name:

LOV Name: LOV_CR_ACCOUNT Image Source:

Fieldset Name: FST_CREDIT

CLASSID:

Exact Fetch

Custom Attributes Events Bind Variables Return Fields

Attribute Name	Attribute value	Active
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Select Fields -- Webpage Dialog

FieldsBrowser

Asc Desc

Find Field:

FUNCTION_ID

LBL_FUNCTION_ID

REC_KEY

LBL_REC_KEY

FIELD_NAME

LBL_FIELD_NAME

FIELD_VAL

LBL_FIELD_VAL

DATA_TYPE

VAL_TYPE

Field Name: FUNCTION_ID

Field Type: Hidden

Label Code:

Option Link:

Required

LOV Name:

Image Src:

Datatype: VARCHAR2

Default Value:

Col Heading: FUNCTION_ID

DataField: FUNCTION_ID

MASK:

Calendar Text

Service Call

Service Call Required?

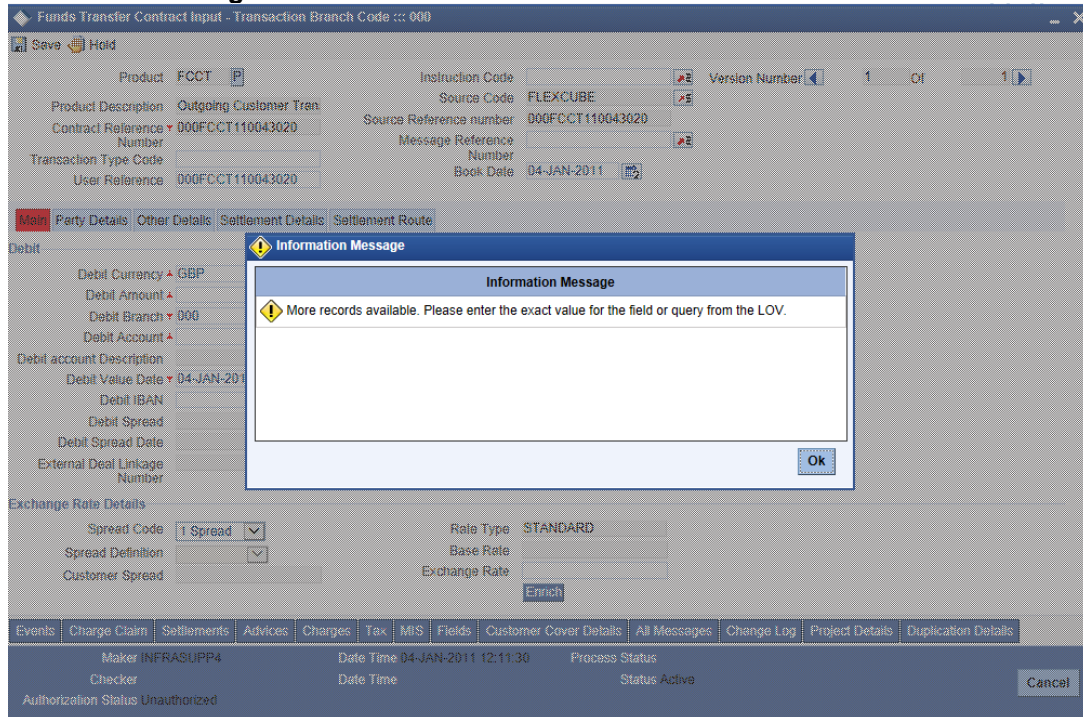
Service Name:

Operation:

Request Type: Full

Events Custom Att Add DB Cc Add Label

Information Message Window



The screenshot shows the 'Funds Transfer Contract Input - Transaction Branch Code : 000' window. It contains various input fields for Product (FCCT), Instruction Code, Source Code (FLEXCUBE), Version Number (1 of 1), Contract Reference Number (000FCCT110043020), Source Reference number (000FCCT110043020), Message Reference Number, Transaction Type Code, User Reference (000FCCT110043020), and Book Date (04-JAN-2011). Below these are tabs for Main, Party Details, Other Details, Settlement Details, and Settlement Route. The 'Main' tab is active, showing Debit details (Debit Currency: GBP, Debit Amount, Debit Branch: 000, Debit Account, Debit account Description, Debit Value Date: 04-JAN-2011, Debit IBAN, Debit Spread, Debit Spread Date, External Deal Linkage Number) and Exchange Rate Details (Spread Code: 1 Spread, Rate Type: STANDARD, Spread Definition, Customer Spread, Base Rate, Exchange Rate). An 'Information Message' dialog box is overlaid on the window, displaying a warning icon and the text: 'More records available. Please enter the exact value for the field or query from the LOV.' with an 'OK' button.

3.2 Is Mandatory

This parameter should be specified during definition of LOV in ODT.

If this parameter is selected, then total wild card search (by providing blank or % in reduction fields) won't be allowed on fields where the particular LOV is attached.

In LOV definition screen, **is mandatory** option would be enabled for all Reduction Fields. This feature is not available for Global LOVs.

3.3 Minimum Search Character Length

If '**is mandatory**' is selected as yes for any reduction field, ODT will ask for minimum search character length. By default the value is 3.

If field is mandatory and minimum search character length is given as n, then while searching, user has to enter minimum of n characters in order to search a particular value otherwise the system will show error message.

Any value less than 3 will not be accepted. ODT will show alert message in case of any rule violation.

This feature is not available for Global LOVs.


Example : Customer LOV should allow searches based on is Mandatory and Minimum no of Character search character fields only and total wild card search should not be allowed

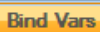
Figure below illustrates **Is Mandatory** and **Min No. of Search Characters** fields in ODT


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LoV Definitions -- Webpage Dialog

LOV Name: Auto LOV Required: YES





Form Name: Form Title: 



Fetch Rows: Data Pg Size: 

LOV Query: 



LOV Details

	Redn Fld Label	Redn Fld Type	Is Indexed	Minimum search char length	
<input type="checkbox"/>	<input type="text" value="LBL_CCY_CODE"/> 	* TEXT	* Y	<input type="text" value="3"/>	
<input type="checkbox"/>	<input type="text" value="LBL_CCY_NAME"/> 	* TEXT	* N	<input type="text"/>	

Funds Transfer Contract Input - Transaction Branch Code ::: 000

List of Values Credit Account

Minimum search characters (any one field mandatory)
Account Number(5) || IBAN Account Number(3)

Case Sensitive

Account Number % Currency %
Account Description % IBAN Account Number %

Fetch Values

Search Results

First Previous 1 Of 1 Next Last Go

Account Number	Account Description	Currency	IBAN Account Number
----------------	---------------------	----------	---------------------

No Records Found for the Specified Criteria

Deal Spread Date Credit Spread Date
External Deal Linkage Number Deal Reference Number

Exchange Rate Details

Spread Code 1 Spread Rate Type STANDARD
Spread Definition Base Rate
Customer Spread Exchange Rate

Enrich

Events Charge Claim Settlements Advices Charges Tax MIS Fields Customer Cover Details All Messages Change Log Project Details Duplication Details

Maker INFRASUPP4 Date Time 04-JAN-2011 12:11:30 Process Status
Checker Date Time Status Active
Authorization Status Unauthorized

Cancel

Funds Transfer Contract Input - Transaction Branch Code ::: 000

List of Values Credit Account

Minimum search characters (any one field mandatory)
Account Number(5) || IBAN Account Number(3)

Case **Information Message**

Information Message

Please enter the minimum value for atleast one of the Mandatory field

Ok

No Records Found for the Specified Criteria

Deal Spread Date Credit Spread Date
External Deal Linkage Number Deal Reference Number

Exchange Rate Details

Spread Code 1 Spread Rate Type STANDARD
Spread Definition Base Rate
Customer Spread Exchange Rate

Enrich

Events Charge Claim Settlements Advices Charges Tax MIS Fields Customer Cover Details All Messages Change Log Project Details Duplication Details

Maker INFRASUPP4 Date Time 04-JAN-2011 12:11:30 Process Status
Checker Date Time Status Active
Authorization Status Unauthorized

Cancel

Funds Transfer Contract Input - Transaction Branch Code : 000

List of Values Credit Account

Minimum search characters (any one field mandatory)
Account Number(5) || IBAN Account Number(3)

Case Sensitive

Account Number: 000000% Currency: %
Account Description: % IBAN Account Number: %

Fetch Values

Search Results

First Previous 1 Of 3 Next Last Go

Account Number	Account Description	Currency	IBAN Account Number
0000000000	COMMERZBANK AG Demo	USD	
0000000001	TEST	USD	
0000000111	Abel abk	GBP	
0000010100	Abel abk	GBP	
0000010106	Abel abk	GBP	

Ok

Debit Spread Date Credit Spread Date
External Deal Linkage Number Deal Reference Number

Exchange Rate Details

Spread Code: 1 Spread Role Type: STANDARD
Spread Definition: Base Rate:
Customer Spread: Exchange Rate:

Enrich

Events Charge Claim Settlements Advices Charges Tax MIS Fields Customer Cover Details All Messages Change Log Project Details Duplication Details

Maker: INFRASUPP4 Date Time: 04-JAN-2011 12:11:30 Process Status:
Checker: Date Time: Status Active
Authorization Status: Unauthorized

Cancel

4 Summary Query performance Enhancements

Oracle FLEXCUBE Development Workbench provides the developer with a user friendly console for defining criteria based search for handling the high volume data with following parameters
Following parameters/features are introduced for handling criteria based search.

Summary Details

Title:

Data Blocks: BLK_1

Data Source: STTM_CUST_019

Summary Type: Summary

Summary Screen Size: Medium

☒ Criteria Based Search

Default Where Clause:

Default Order By:

Multi Branch Where Clause:

Main Summary Screen:

☐ WebServices Required

Data Block Fields | Custom Buttons | Fields Ordering

Data Block Fields

GENGER
BRNCD

Fields Selected | Query | Properties

☐ CUSTNO ☒ Properties

☒ COUNRTY ☒ Properties

Summary Details

Min Char Details

Min search char length: 3

Lov Details

LOV Name: LOV_CUSTNO

Return Fields | Bind Variables

Return Fields Mapping [Default From Lov Definition](#)

Query Column	Block Name	Return Field Name
<input checked="" type="checkbox"/> CUST_NO	BLK_1	CUSTNO

- Criteria Based Search
- Minimum number of Search Characters
- Lov Details

4.1 Criteria Based Search

Criteria based search is present in the summary screen. If you want to enable criteria based search feature for the summary screen, you can check the check box for criteria based search. Then on click of the property button you will have to provide the minimum search character length for that field.

4.2 Minimum number of Search Characters

If you want to provide minimum search character length for the lov for handing high volume data, you have this option to provide a minimum number of characters required for the lov to fetch the result of lov. If you are not providing minimum number of character of the lov while querying in summary screen then you will get an error message to provide minimum search character length. There is a restriction to this field, if you enter a value which is greater than the value of the field in the datasource level then ODT won't allow you, it will throw an error message.

4.3 Lov Details

If a particular summary field needs to be attached to a lov then user has to provide these details on click of the property button. You can map the corresponding return fields and the related bind variables. You have to click default from lov then select the required query columns then choose corresponding block name and the return field name.



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