

Lov's Changes for handling high volumes
Oracle Banking Treasury Management

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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 Type: Parent | Function Category: Transaction

Function Id: FTDTRONL | Parent Function: | Header Template: None

Save XML Path: Z:\EXEC\FLEX | Parent Xml: | Footer Template: None

Block Field Properties

Search: []

Field Name: CRACC
Field Label: LBL_CRACC
XSD Tag: CRACC
Display Type: Low
Item Type: Database Item
Parent Field: []
Related Block: []
Related Field: []
TextArea Rows: []
Min.Val: []
Max.Decimals: []
LOV Name: LOV_CR_ACCOUNT
Fieldset Name: FST_CREDIT
CLASSID: []

Data Type: Varchar2
Data Source: FTTBS_CONTRACT_MAST
Max.Length: 20
Field Size: []
Column Name: CR_ACCOUNT
Default Value: []
Preview Value: []
Accesskey Code: []
TextArea Cols: []
Max.Val: []
Mask Id: []
Off Line LOV Name: []
Image Source: []

Popup Edit Req
 Required
 Visible
 Input by LOV Only
 Calendar Text
 Select Multiple
 Uppercase Only
 LOV Validation Req
 Not Req In Xsd
 Report Parameter
 Read Only
 Exact Fetch

Custom Attributes | Events | Bind Variables | Return Fields

Attribute Name	Attribute value	Active

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
 Popup Edit Req
LOV Name: []
Image Src: []
Datasource: UDTBS_FUNC_UDF_UF
Max.Length: []
Value: []
AcsKeyCd: []
Related Field: []
 Input Only by LOV
XSD Tag: []

Horizontal FldSet Req?
Options
 Select Multiple
 Auth Screen
Popup Edit
LOV Over

Label Link: []
Alt Image: []
CLASSID: []
Datatype: VARCHAR2
Default Value: []
Col Heading: []
DataField: FUNCTION_ID
MASK: []
 Calendar Text

Summary

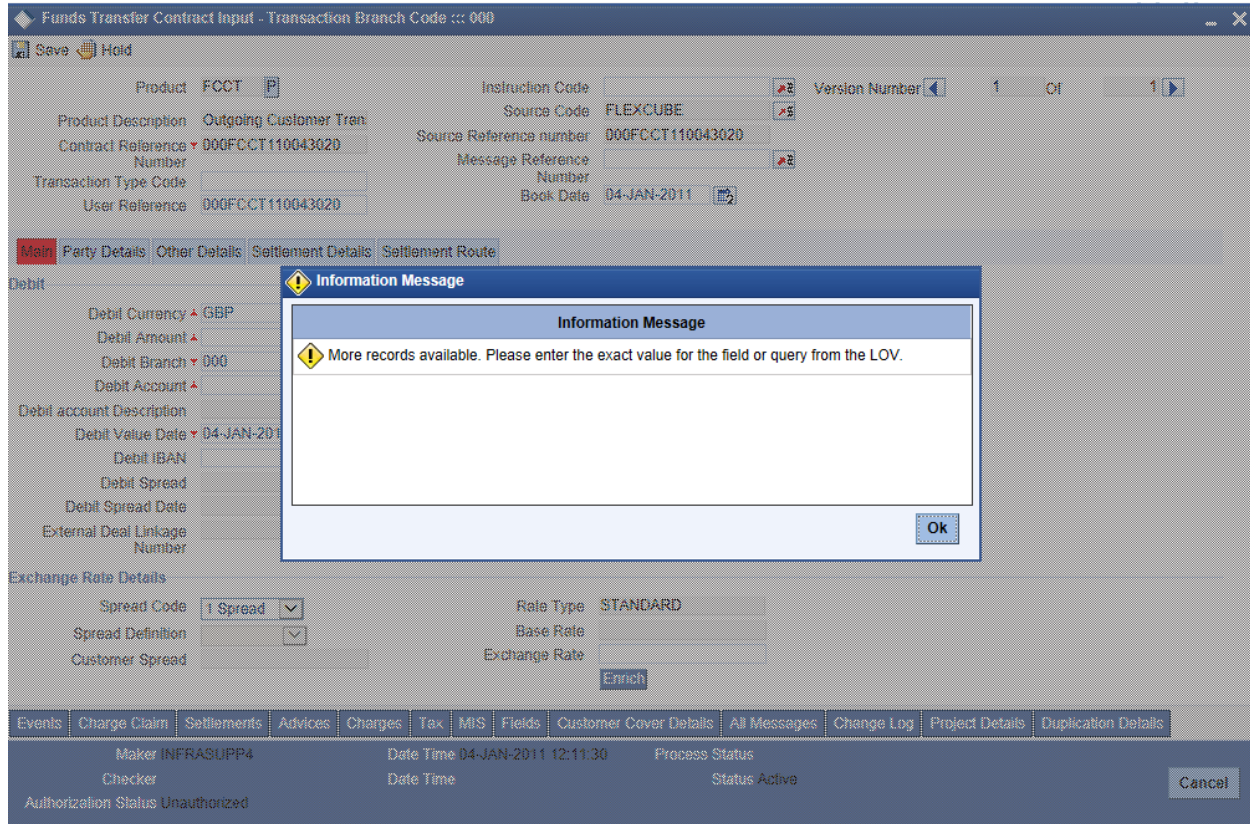
Query
 Result
 Advanced
Legends
 Exact Fetch Req

Service Call

Service Call Required ?
Service Name: []
Operation: []
Request Type: Full

Events | **Custom Att** | **Add DB Co** | **Add Label**

[] []



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

Function Generation

Action: Load | Function Type: Parent | Function Category: Transaction
 Function Id: FTDTRONL | Parent Function: | Header Template: None
 Save XML Path: Z:\EXECIFLEX | Parent Xml: | Footer Template: None

Search: [] | List of Values Details

LOV Name: LOV_CR_ACCOUNT
 LOV Query: select ac_gl_no, ac_gl_desc, ac_gl_ccy, iban_ac_no from (select b.ac_gl_no, b.cust_name1 || '-'

Query Cols	Data Type	Visible	Rdn Fld	Redn Fld Type	Redn/Col Label	Is Mandatory	Min No. of Search Characters
<input type="checkbox"/> AC_GL_NO	VARCHAR2	Yes	Yes	TEXT	LBL_ACCNUM	Yes	3
<input type="checkbox"/> AC_GL_DESC	VARCHAR2	Yes	Yes	TEXT	LBL_ACDESC	No	
<input type="checkbox"/> AC_GL_CCY	VARCHAR2	Yes	Yes	TEXT	LBL_ACCGLCCY	No	
<input type="checkbox"/> IBAN_AC_NO	VARCHAR2	Yes	Yes	TEXT	LBL_TXTIBANACNO	Yes	3

Populate

- Preferences
- Data Source
- List of Values
 - LOV_PRODUCT
 - LOV_MESSAGE_REFERENCE
 - LOV_DR_CCY
 - LOV_CR_CCY
 - LOV_DR_BRANCH
 - LOV_CR_BRANCH
 - LOV_DR_ACCOUNT
 - LOV_CR_ACCOUNT**
 - LOV_DEBIT_IBAN
 - LOV_CREDIT_IBAN
 - LOV_RECEIVER
 - LOV_PAYMENT_DETAILS1
 - LOV_PAYMENT_DETAILS2
 - LOV_PAYMENT_DETAILS3
 - LOV_PAYMENT_DETAILS4
 - LOV_BY_ORDER_OF
 - LOV_ULB_BENEF1
 - LOV_ULB_BENEF2
 - LOV_REFERENCE
 - LOV_EX_RATE_SERIAL
 - LOV_MULTI_CREDIT_REF_NO
 - LOV_BANK_OP_CODE
 - LOV_INSTR_CODE
 - LOV_SUMMARY_FCCREF
 - LOV_SOURCE_CODE
 - LOV_SUMMARY_SOURCEREF
 - LOV_CONS_AC_REF
 - LOV_CTRY_CODE_BYORDER6
 - LOV_CTRY_CODE_AWI
 - LOV_CTRYCD_ULTBEN6

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 % x Currency %
Account Description % IBAN Account Number %

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			

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

Exchange Rate Details

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

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

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

Search First

No Records Found for the Specified Criteria

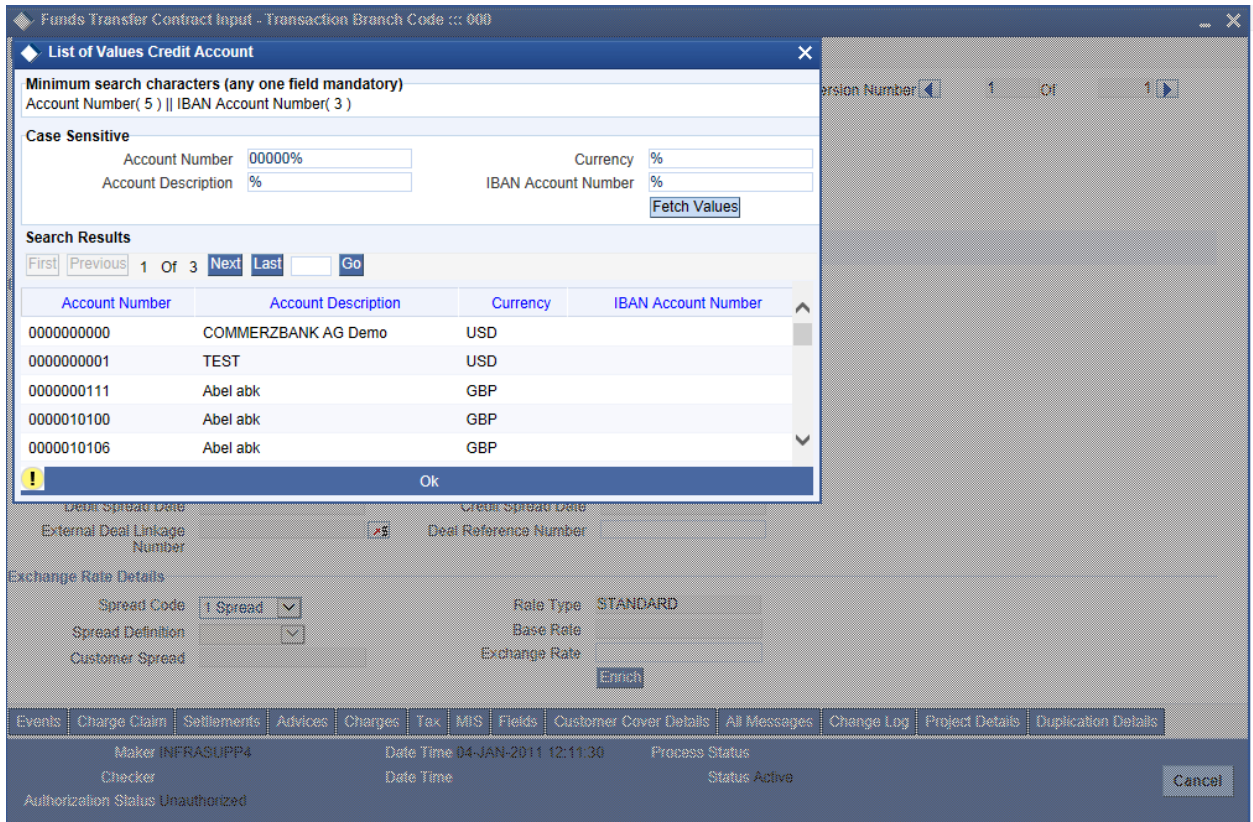
Debit Spread Date Credit Spread Date
External Deal Linkage Number Deal Reference Number

Exchange Rate Details

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

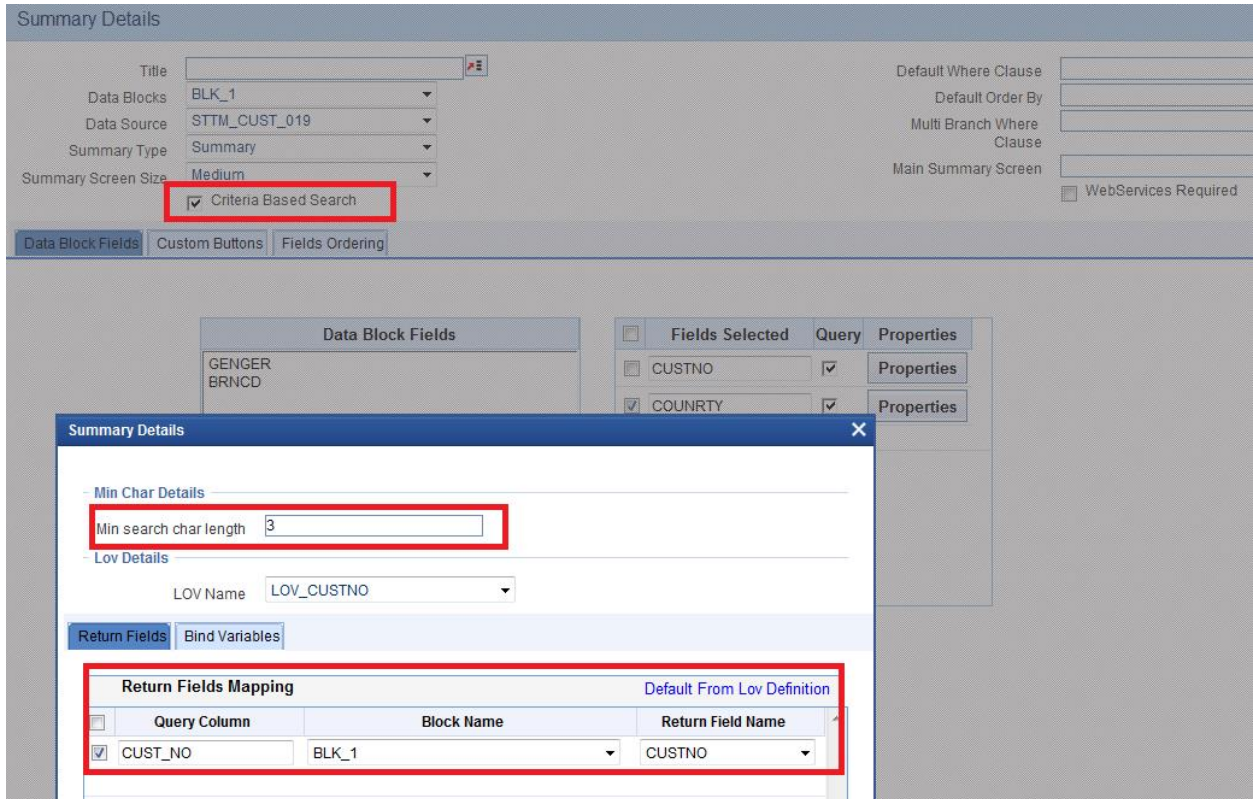
Events Charge Claim Settlements Advices Charges Tax MIS Fields Customer Cover Details All Messages Change Log Project Details Duplication Details

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



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: GENDER, BRNCD

Fields Selected: CUSTNO, COUNRTY

Query:

Properties:

Summary Details

Min Char Details

Min search char length:

Lov Details

LOV Name: LOV_CUSTNO

Return Fields | Bind Variables

Return Fields Mapping			Default From Lov Definition
<input type="checkbox"/>	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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