

Lov's Changes for handling high volumes

Oracle FLEXCUBE Universal Banking

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**ORACLE**  
**FINANCIAL SERVICES**

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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**

**Label Link:** [ ]

Select Multiple  
 Auth Screen

**Buttons:** Popup Edit, LOV Over

**Alt Image:** [ ]  
**CLASSID:** [ ]  
**Datatype:** VARCHAR2  
**Default Value:** [ ]  
**Col Heading:** [ ]  
**DataField:** FUNCTION\_ID  
**MASK:** [ ]  
 Calendar Text

**Summary**

Query  
 Result  
 Advanced  
**Legends**  
 Exact Fetch Reqd

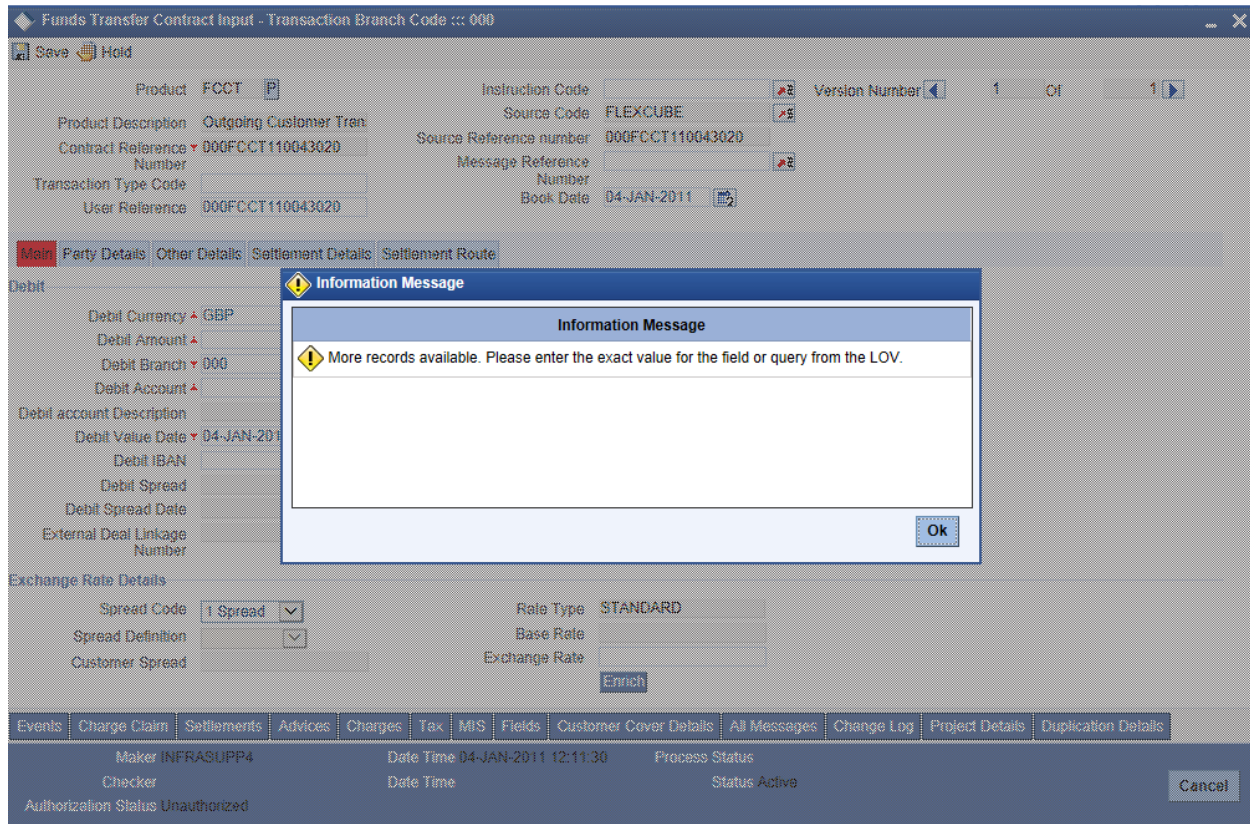
**Service Call**

Service Call Required ?

**Service Name:** [ ]  
**Operation:** [ ]  
**Request Type:** Full

**Buttons:** Events, Custom Att, Add DB Co, Add Label

**Icons:** [ ] [ ]



### 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\_DR\_BRANCH
  - LOV\_CR\_BRANCH
  - LOV\_DR\_ACCOUNT
  - LOV\_CR\_ACCOUNT**
  - LOV\_DEBT\_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 Results

First Previous 1 Of 1 Next Last  Go

No Records Found for the Specified Criteria

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

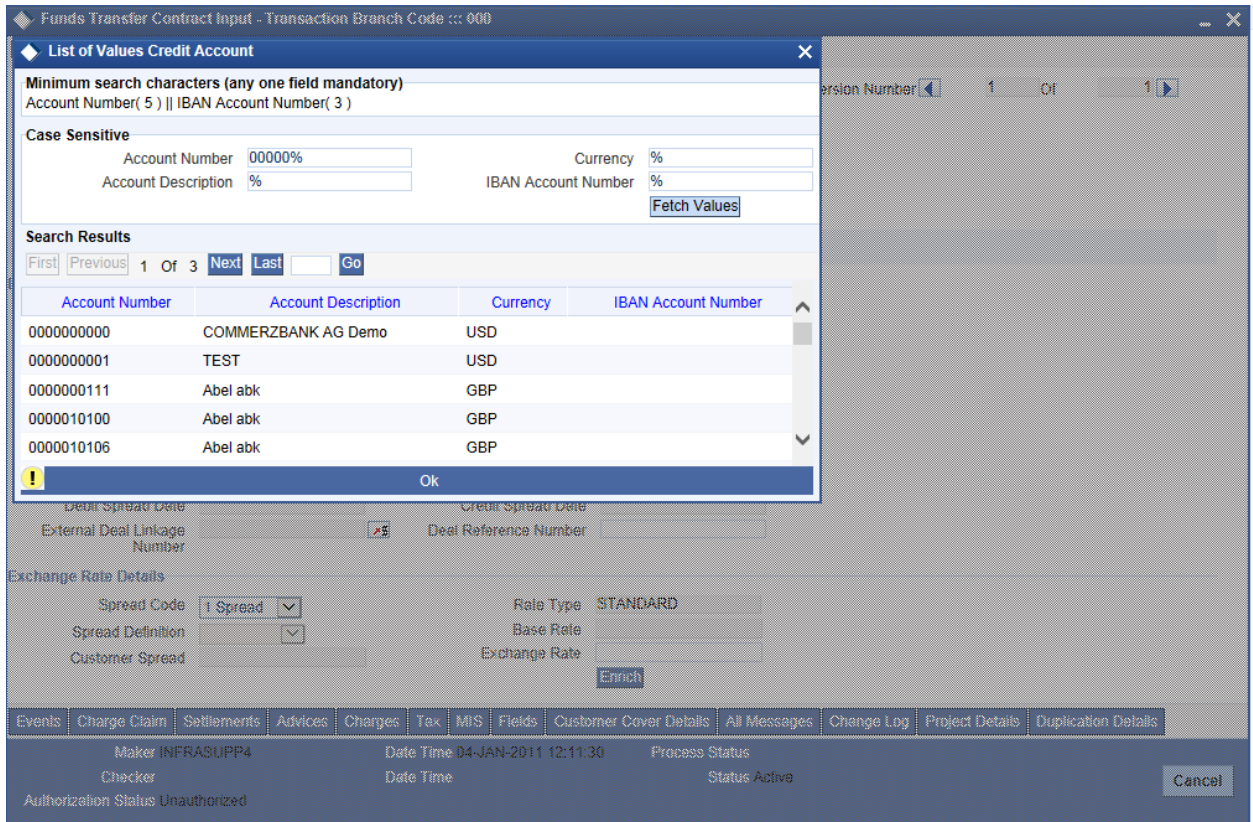
Exchange Rate Details

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:  CUSTNO,  COUNRTY

Properties:  CUSTNO,  COUNRTY

Summary Details

Min Char Details

Min search char length:

Lov Details

LOV Name: LOV\_CUSTNO

Return Fields | Bind Variables

Return Fields Mapping

| 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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