

# Oracle® Banking Corporate Lending

## LOV's Changes for Handling High Volumes



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# Preface

This topic contains the following sub-topics:

- [Purpose](#)
- [Acronyms and Abbreviations](#)
- [Audience](#)
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- [Diversity and Inclusion](#)
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## Purpose

This manual is designed to help acquaint you with the LOVs defined for handling the high volume data using Oracle FLEXCUBE Universal Banking Development Workbench.

## Acronyms and Abbreviations

**Table 1 Acronyms and Abbreviations**

| Acronyms | Abbreviations                              |
|----------|--------------------------------------------|
| FCUBS    | Oracle FLEXCUBE Universal Banking Solution |
| OBCL     | Oracle Banking Corporate Lending           |
| ODT      | Oracle Development Tool                    |

## Audience

This document is intended for Oracle FLEXCUBE Universal Banking Application developers/ users that use Development Workbench to develop various Oracle FLEXCUBE Universal Banking components. To use this manual, the user needs a conceptual and working knowledge of the below:

**Table 2 Proficiency Details**

| Proficiency                                              | Resources                                                  |
|----------------------------------------------------------|------------------------------------------------------------|
| Oracle FLEXCUBE Universal Banking Technical Architecture | Training programs from Oracle Financial Software Services. |
| Working knowledge of Web based applications              | Self Acquired                                              |
| Working knowledge of Oracle Database                     | Oracle Documentations                                      |

## Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

## Conventions

The following text conventions are used in this document:

**Table 3 Conventions**

| Convention      | Meaning                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b> | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.         |
| <i>italic</i>   | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.                          |
| monospace       | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

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## Related Resources

For more information on any related features, refer to the following documents:

Open Development Tools guides

## Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

# 1

## Introduction

This document explains steps to define or modify LOVs for handling high-volume data using the Oracle FLEXCUBE Universal Banking Development Workbench.

# 2

## List of Values

This topic provides an overview of the List of Values.

Oracle FLEXCUBE Universal Banking Development Workbench provides the developer with a user-friendly console for defining LOV's of Oracle FLEXCUBE Universal Banking handling the high volume data with the following parameters. Following parameters/features are introduced for handling such LOVs:

- [Exact Fetch](#)  
This topic provides detailed information on exact fetch.
- [Is Mandatory](#)  
This topic provides the detailed information on where defining LOV is mandatory for handling the high volume data.
- [Minimum Number of Search Character](#)  
This topic provides an overview of the minimum number of search characters.

### 2.1 Exact Fetch

This topic provides detailed information on exact fetch.

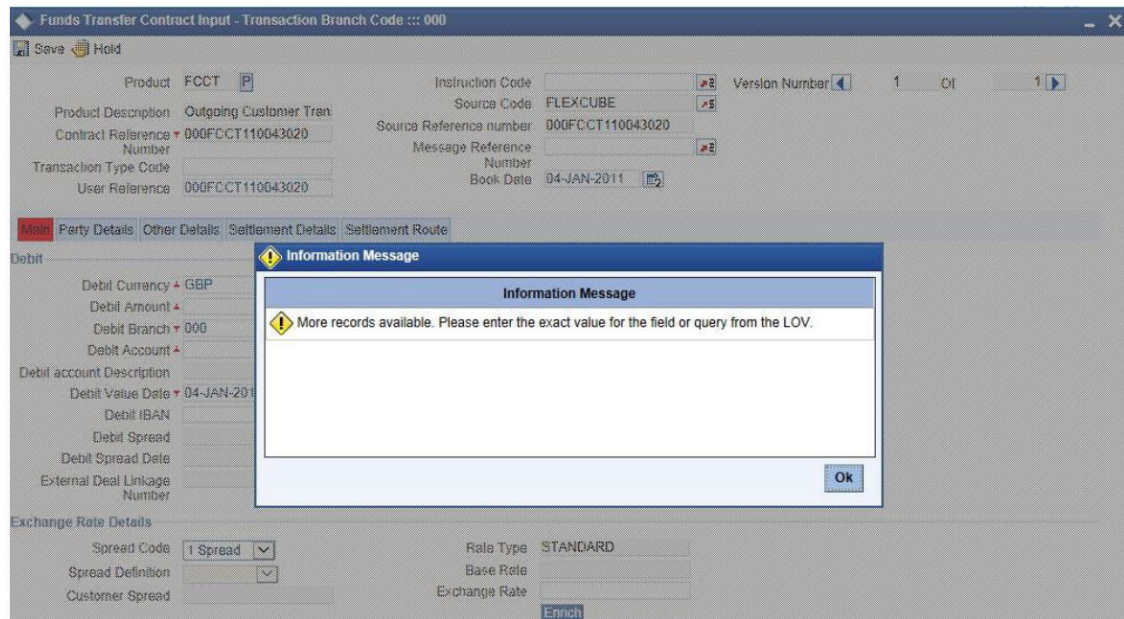
If the Block field is of **Display Type LOV**, the developer can choose the exact fetch parameter for search optimization (in High Volume). If the **Exact Fetch** parameter is selected, the user has to provide the exact values of the field as it is present in the Database, otherwise, the system will throw the error message as an invalid value. Wildcard Searches are not permitted.

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

Figure 2-1 Block Field Properties – LOV

Figure 2-2 Select Fields – Webpage Dialog

Figure 2-3 Information Message



## 2.2 Is Mandatory

This topic provides the detailed information on where defining LOV is mandatory for handling the high volume data.

This parameter should be specified during the definition of LOV in Open Development Tool. 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 the LOV definition screen, **Is Mandatory** option would be enabled for all Reduction Fields. This feature is not available for Global LOVs.

## 2.3 Minimum Number of Search Character

This topic provides an overview of the minimum number of search characters.

If **Is Mandatory** is selected as **Yes** for any reduction field, Open Development Tool will ask for minimum search character length. By default, the value is 3.

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

Any value less than 3 will not be accepted. Open Development Tool will show an 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.

The figure below illustrates **Is Mandatory** and **Minimum number of Search Character** fields in Open Development Tool.

Figure 2-4 List Of Values Details

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 || '-' || b.ac\_gl\_desc, b.ac\_gl\_ccy, b.iban\_ac\_no from b) b

| Query Cols | DataType | Visible | Rdn Fid | Redn Fid Type | Redn/Col Label  | Is Mandatory | Min No. of Search Characters |
|------------|----------|---------|---------|---------------|-----------------|--------------|------------------------------|
| AC_GL_NO   | VARCHAR2 | Yes     | Yes     | TEXT          | LBL_ACCNUM      | Yes          | 3                            |
| AC_GL_DESC | VARCHAR2 | Yes     | Yes     | TEXT          | LBL_ACDESC      | No           |                              |
| AC_GL_CCY  | VARCHAR2 | Yes     | Yes     | TEXT          | LBL_ACCGLCCY    | No           |                              |
| IBAN_AC_NO | VARCHAR2 | Yes     | Yes     | TEXT          | LBL_TXTIBANACNO | Yes          | 3                            |

Figure 2-5 LOV Definitions- Webpage Dialog

LoV Definitions -- Webpage Dialog

LOV Name: LOV\_CCY | Auto LOV Required: YES

Form Name: CFDFLTRT | Form Title: Select Currency

Fetch Rows: 100 | Data Pg Size: 10

LOV Query: SELECT CCY\_CODE, CCY\_NAM

Populate | Bind Vars

LOV Details

| Redn Fid Label | Redn Fid Type | Is Indexed | Minimum search char length |
|----------------|---------------|------------|----------------------------|
| LBL_CCY_CODE   | TEXT          | Y          | 3                          |
| LBL_CCY_NAME   | TEXT          | N          |                            |

Figure 2-6 List Of Values Credit Account

The screenshot shows a dialog box titled "List of Values Credit Account". It contains a section for "Minimum search characters (any one field mandatory)" with the criteria "Account Number( 5 ) || IBAN Account Number( 3 )". Below this is a "Case Sensitive" section with input fields for "Account Number", "Account Description", "Currency", and "IBAN Account Number", each containing a "%" character. A "Fetch Values" button is located to the right of the "IBAN Account Number" field. The "Search Results" section shows a table with four columns: "Account Number", "Account Description", "Currency", and "IBAN Account Number". The table is currently empty, and a status bar at the bottom indicates "No Records Found for the Specified Criteria".

Figure 2-7 Information Message

The screenshot shows the same "List of Values Credit Account" dialog box as in Figure 2-6, but with an "Information Message" overlay. The message box has a title bar "Information Message" and contains a yellow warning icon followed by the text "Please enter the minimum value for atleast one of the Mandatory field". An "Ok" button is located at the bottom right of the message box. The background dialog box is dimmed, and the status bar at the bottom still indicates "No Records Found for the Specified Criteria".

Figure 2-8 List Of Values Credit Account

**List of Values Credit Account**

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

Case Sensitive

Account Number 00000% 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

# 3

## Summary Query performance Enhancements

This topic provides an overview of summary query performance enhancements for handling the high volume data.

Oracle FLEXCUBE Universal Banking Development Workbench provides the developer with a user-friendly console for defining criteria-based search for handling the high volume data with the following parameters.

**Figure 3-1 Summary Details**

The screenshot displays the 'Summary Details' configuration window. The 'Criteria Based Search' checkbox is checked. The 'Min search char length' is set to 3. The 'Return Fields Mapping' table shows a mapping for CUST\_NO to CUSTNO.

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

Following parameters/features are introduced for handling criteria-based search:

- [Criteria Based Search](#)  
This topic provides detailed information on Criteria Based Search.
- [Minimum Number of Search Characters](#)  
This topic provides the detailed information on minimum number of search characters for defining criteria-based search.
- [LOV Details](#)  
This topic provides information on LOV Details.

### 3.1 Criteria Based Search

This topic provides detailed information on Criteria Based Search.

**Criteria Based Search** is present in the **Summary** screen. If the user wants to enable a **Criteria Based Search** feature for the **Summary** screen, check the check box for a **Criteria Based Search**. Then on click **Property**, the user will have to provide the minimum search character length for that field.

## 3.2 Minimum Number of Search Characters

This topic provides the detailed information on minimum number of search characters for defining criteria-based search.

If the user wants to provide minimum search character length for the LOV for handling high volume data, the user has this option to provide a minimum number of characters required for the LOV to fetch the result of LOV. If the user is not providing a minimum number of characters of the LOV while querying in the **Summary** screen then get an error message to provide minimum search character length. There is a restriction to this field, if the user enters a value that is greater than the value of the field in the data source level, then Open Development Tool will not allow it, it will throw an error message.

## 3.3 LOV Details

This topic provides information on LOV Details.

If a particular summary field needs to be attached to a LOV then the user has to provide these details on click **Property**. The user can map the corresponding return fields and the related bind variables. Click **Default** from LOV, and then select the required query columns, then choose the corresponding **Block Name** and the **Return Field Name**.