Oracle® Banking APIs Auto Categorization of Spend Transactions





Oracle Banking APIs Auto Categorization of Spend Transactions, Patchset Release 22.2.5.0.0

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Preface

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- · Diversity and Inclusion
- Conventions
- · Related Resources
- Screenshot Disclaimer
- Acronyms and Abbreviations

Purpose

This guide is designed to help acquaint you with the Oracle Banking APIs application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

Audience

This document is intended for the following audience:

- Customers
- Partners

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Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	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.

Related Resources

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

Oracle Banking APIs Installation Manuals

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.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:



Table 1 Acronyms and Abbreviations

Abbreviation	Description
OBAPI	Oracle Banking APIs



Auto Categorization Of Spend Transactions

Scenario:

If a Spend transaction description contains keyword "Big Bazaar" then that transaction should get auto-categorized as follows:

```
Category → Shopping
Subcategory → Groceries
```

Maintenance steps:

- 1. Create a Category and a Subcategory as required after login as an Admin user.
- Note the CATEGORY_ID column value of the newly created Category & Subcategory from the table DIGX SP SPEND CATEGORY (Eg: 10 and 101 respectively).
- 3. Insert a row in table DIGX_RL_SPEND as below (Note the ID column value which is '10001' in this example).
 Sample script:

- 4. Insert a row in table DIGX RL CONDITION as below:
 - a. ID as any unique value
 - b. RULE_ID as provided in the DIGX RL SPEND table above
 - c. EXPRESSION OBJECT value should contain the keyword as follows:

d. OUTCOME_OBJECT value should contain the corresponding Category & Subcategory ID as follows (Subcategory is NOT mandatory):

 e. OPERATOR value should be 'CONTAINS' (No other operators are supported out of the box

Sample script:

```
insert into
        DIGX RL CONDITION (ID, RULE ID, OPERATOR, OUTCOME OBJECT,
EXPRESSION OBJECT, CREATED BY,
        CREATION DATE, LAST UPDATED BY, LAST UPDATED DATE,
OBJECT STATUS, OBJECT VERSION NUMBER,
        DETERMINANT VALUE) values ('103', '10001',
        'CONTAINS', utl raw.cast to raw('{"@class" :
"com.ofss.digx.app.spendanalysis.dto.rule.SpendCategorizationOutcomeFact
ValueDTO","category" :
        "10", "subCategory" :
        "101"}'),
        utl raw.cast to raw('{"@class" :
"com.ofss.digx.app.spendanalysis.dto.rule.SpendCategorizationExpressionF
actValueDTO","keyword" : "Big
        Bazaar"}'), '', null, '',
        null, '', 1, 'OBDX BU');
```

- 5. Insert such rows in table <code>DIGX_RL_CONDITION</code> for each keyword & Category-Subcategory combination as required by the Bank.
- 6. Verify the following properties (select * from DIGX_FW_CONFIG_ALL_B where category_id = 'ruleconfig';):
 - a. IS RULE EVALUATION REQUIRED $\rightarrow Y$
 - **b.** SPEND EVALUATOR \rightarrow

com.ofss.digx.app.spendanalysis.ruleengine.evaluator.SpendRuleEvaluator (out of the box Spend rule evaluator)

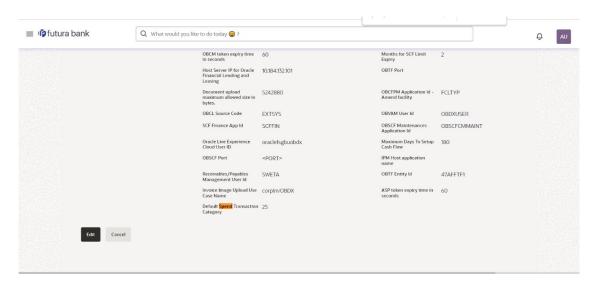
- c. SPEND_RULE_NAME → SpendRule (As per the value of NAME column in DIGX_RL_SPEND table)
- d. SPEND_DEFAULT_CATEGORY_ID → This property is used for maintaining default category, if no keyword is match from all maintained rules.

Below attached screenshot entry is required for setting default category. We need to update the entry from day one configuration screen. We have to maintain the Category ID in this configuration value.

Note:

If below entry is not maintain and no rule is matched, then no category is set against the spend transaction.

Figure 1-1 "System configuration" screen with required entry for setting default category





Categorization Of Spend Transactions Using ML Engines

Bank must use their own Third-party ML Engine provider and customized adapter. If they don't have ML engine provider, then they have to disable the ML Engine call using **Configuration of ML call for Spend transaction categorization** flag as mentioned ahead. If in case categories provided by ML engine does not exist in the system, then system will create those categories.

To activate the ML engine call, we have to set **Configuration of ML call for Spend transaction categorization** flag as **Y**. If in case, we don't set this value then by default ML engine service is in inactive state.

We can be able to update the flag with the help of **System configuration** screen with Admin Type Role.

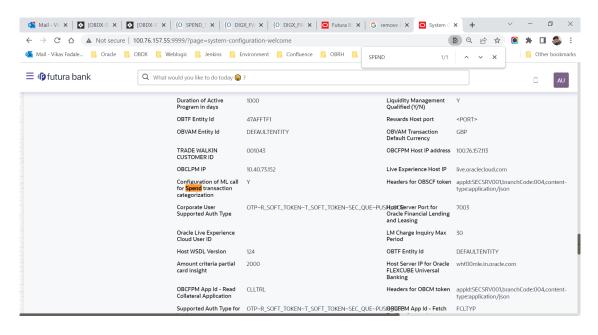


Figure 2-1 System configuration screen with Admin Type Role

Insert into DIGX FW CONFIG ALL O



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List of Topics

This user manual is organized as follows:

Table 3-1 List of Topics

Topics	Description
Preface	This topic provides information on the introduction, intended audience, list of topics, and acronyms covered in this guide.
Auto Categorization Of Spend Transactions	This topic provides information on auto categorization of spendtransactions.
Categorization Of Spend Transactions Using ML Engine	This topic provides information on how ML Engine will do the auto categorization on user spend expenditure. It will auto map the category base on transaction description.



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