Auto Categorization of Spend Transactions Guide
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1. Preface

1.1 Intended Audience

This document is intended for the following audience*:*

- Customers
- Partners

1.2 Documentation Accessibility

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1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

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2. 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.

2. 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:

```
insert into DIGX_RL_SPEND (ID, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS,
OBJECT_VERSION_NUMBER, NAME, DESCRIPTION, DETERMINANT_VALUE)
values ('10001', '', sysdate , '', sysdate , '', 1, 'SpendRule',
'SpendDTODesc', 'OBDX_BU');
```

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:
      utl_raw.cast_to_raw('{
      "@class" :
      "com.ofss.digx.app.common.dto.rule.SpendCategorizationExpressionFactValueDTO",
      "keyword" : "Big Bazaar"
      }')

   d. OUTCOME_OBJECT value should contain the corresponding Category & Subcategory ID as follows (Subcategory is NOT mandatory):
      utl_raw.cast_to_raw('{
      "@class" :
      "com.ofss.digx.app.common.dto.rule.SpendCategorizationOutcomeFactValueDTO",
      "category" : "10",
      "subCategory" : "101"
      }')

   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.common.dto.rule.SpendCategorizationOutcomeFactV
alueDTO",

"category" : "10",

"subCategory" : "101"

}'), utl_raw.cast_to_raw('{

"@class" :
"com.ofss.digx.app.common.dto.rule.SpendCategorizationExpressionFa
ctValueDTO",

"keyword" : "Big Bazaar"

}'), '', null, '', null, '', 1, 'OBDX_BU');
```

5. Insert such rows in table DIGX_RL_CONDITION 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 --> Y

   b. SPEND_EVALUATOR --> 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)

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