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Address Configuration Guide

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Oracle Financial Services Software Limited

Oracle Park

Off Western Express Highway

Goregaon (East)

Mumbai, Maharashtra 400 063

India

Worldwide Inquiries:

Phone: +91 22 6718 3000

Fax: +91 22 6718 3001

www.oracle.com/financialservices/

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1 Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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.

Introduction provides brief information on the overall functionality covered in the User Manual.

The subsequent chapters provide information on transactions covered in the User Manual.

Each transaction is explained in the following manner:

- Database Configuration
- Properties Configuration

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 21.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide
- Oracle Banking Digital Experience Installation Manuals

2 Overview

This document provides the necessary steps to configure address entries for the system. Address configuration is required for defining structured, unstructured, and hybrid addresses that are used in various features. The configuration involves two main aspects:

2.1 Database Configurations

- A configuration entry must first be added to the DIGX_FW_CONFIG_VAR_B table to define the address format type (MT or MX) for a given entity.
- Subsequently, address records need to be inserted into the DIGX_CM_ADDRESS and DIGX_CM_ADDRESS_MAPPING tables. These define the address format type and establish mappings to individual address fields.
- A regular expression configuration also needs to be added in the DIGX_FW_CONFIG_VAR_B table to enforce input validation across address fields.
- A migration script may also be executed to transition existing data of international payees from MT-based to MX-based address format.

2.2 Properties Configurations

Corresponding key-value entries should be added to the Address.properties file. These entries ensure proper display names and translations for different address fields in the user interface.

3 Database Configurations

All configurations are explained below in sequence. To ensure successful address type configuration all the steps must be followed carefully.

3.1 DIGX_FW_CONFIG_VAR_B table

Before inserting address table entries, the address format (MT or MX) must be configured by executing the following query:

```
INSERT INTO DIGX_FW_CONFIG_VAR_B (PROP_ID, ENV_ID, PROP_VALUE,
FACTORY_SHIPPED_FLAG, PROP_COMMENTS, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS, OBJECT_VERSION_NUMBER,
MODULE, DETERMINANT_VALUE, TYPE, UI_DEFINITION) VALUES ('SWIFT_MESSAGE_FORMAT',
'OBDX', '<PROP_VALUE>', 'Y', 'Configuration for type of address.', 'ofssuser', SYSDATE, 'ofssuser',
SYSDATE, NULL, NULL, 'OTHERMODULE', '<DETERMINANT_VALUE>', 'TXT', '{"title":"Address type(MT
or MX)","validator":"ALPHABET","required":true,"message":"Specifies which type of address is configured
(MT or MX).","extension":{"type":"length","options":{"min":1,"max":2}}});
```

Here, replace <PROP_VALUE> with:

- 'MX' for using new address fields.
- 'MT' for using existing address fields.

Also, replace <DETERMINANT_VALUE> with the target business entity (e.g., 'OBDXBU32')

Note: All other field values can be used as-is from the template above.

Sample Query

```
INSERT INTO DIGX_FW_CONFIG_VAR_B (PROP_ID, ENV_ID, PROP_VALUE,
FACTORY_SHIPPED_FLAG, PROP_COMMENTS, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS, OBJECT_VERSION_NUMBER,
MODULE, DETERMINANT_VALUE, TYPE, UI_DEFINITION) VALUES ('SWIFT_MESSAGE_FORMAT',
'OBDX', 'MX', 'Y', 'Configuration for type of address.', 'ofssuser', SYSDATE, 'ofssuser', SYSDATE, NULL,
NULL, 'OTHERMODULE', 'OBDX_BU', 'TXT', '{"title":"Address type(MT or
MX)","validator":"ALPHABET","required":true,"message":"Specifies which type of address is configured (MT
or MX).","extension":{"type":"length","options":{"min":1,"max":2}}});
```

3.2 DIGX_CM_ADDRESS table

Each address is uniquely identified and linked to a feature function Id (network code) and determinant value (entity).

Insert Statement:

```
INSERT INTO DIGX_CM_ADDRESS (ID, NAME, FEATUREFUNCTION_ID, TYPE,
DETERMINANT_VALUE)
```

```
VALUES ('Strct_Addr1', 'Address', 'CROSS_BORDER_PMNT', 'S', 'OBDX_BU';
```

Column Descriptions:

COLUMN NAME	DESCRIPTION
-------------	-------------

ID	Primary key of the table. Unique identifier for the address configuration.
NAME	Name of the address configuration.
FEATUREFUNCTION ID	Identifier for the feature function (network code) associated with the address.
TYPE	Type of address structure. Holds the value as S, U or H corresponding to Structured, Unstructured or Hybrid
DETERMINANT_VALUE	Determines the applicable entity.

Here FEATUREFUNCTION_ID, TYPE and DETERMINANT_VALUE together form a unique constraint.

3.3 DIGX_CM_ADDRESS_MAPPING table

This table defines field-level configurations for each address.

Insert Statement:

```
INSERT INTO DIGX_CM_ADDRESS_MAPPING (ADDRESS_ID, ADDRESSFIELD_ID, MANDATORY,
MAXALLOWEDLENGTH, MINALLOWEDLENGTH, FIELDORDER)
```

```
VALUES ('Strct_Addr1', 'country', 'Y', 2, 1, 1);
```

Column Descriptions

COLUMN NAME	DESCRIPTION
ADDRESS_ID	Foreign key reference to DIGX_CM_ADDRESS.ID.
ADDRESSFIELD_ID	Foreign key reference to DIGX_CM_ADDRESS_FIELDS.ID.
MANDATORY	Defines if the field is mandatory ('Y' or 'N').
MAXALLOWEDLENGTH	Maximum allowed length for the field.
MINALLOWEDLENGTH	Minimum required length for the field.
FIELDORDER	Order in which the fields should be displayed.

The fields MANDATORY, MAXALLOWEDLENGTH and MINALLOWEDLENGTH will be used for validating Address Fields.

Note:

- For an Unstructured (U) address type, only the fields addLine1, addLine2 and addLine3 should be entered. No other address fields should be provided. (Country field will still be populated but the country selected will get appended to addLine3 along with comma)
- For a Structured (S) or Hybrid (H) address type, the townName field is mandatory.
- For a Hybrid (H) address, at least one of addLine1 or addLine2 must be provided. In this case, addLine3 should not be entered.
- For a Structured (S) address type, addLine1, addLine2 and addLine3 must not be entered.

- All other fields can be entered for Structured (S) and Hybrid (H) addresses, except those mentioned above.
- For fields addLine1, addLine2 and addLine3 the MAXALLOWEDLENGTH should be set to 67 or lower. It should not exceed 67.

3.4 Regex Configuration for Address Fields

To enforce input validation across address fields, a regular expression can be configured in the DIGX_FW_CONFIG_VAR_B table. Use the following template:

```
Insert into DIGX_FW_CONFIG_VAR_B (PROP_ID, ENV_ID, PROP_VALUE,
FACTORY_SHIPPED_FLAG, PROP_COMMENTS, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS, OBJECT_VERSION_NUMBER,
MODULE, DETERMINANT_VALUE, TYPE, UI_DEFINITION) values
```

```
('MX_ADDRESS_FIELD_REGEX', 'OBDX', '<PROP_VALUE>', 'Y', 'Regex for address fields.', 'ofssuser',
sysdate, 'ofssuser', sysdate, null, null, 'OTHERMODULE', '<DETERMINANT_VALUE>', 'TXT',
{'title':"Address fields regex", "validator":"FREE_TEXT", "required":false, "message":"Specifies the regex for
address fields.", "extension":{"type":"length", "options":{"min":1, "max":100}}}
```

```
);
```

Here, replace <PROP_VALUE> with regex for which address fields are to be validated against. Also, replace <DETERMINANT_VALUE> with the target business entity (e.g., 'OBDXBU32')

Note: All other field values can be used as-is from the template above.

Sample Query

```
Insert into DIGX_FW_CONFIG_VAR_B (PROP_ID, ENV_ID, PROP_VALUE,
FACTORY_SHIPPED_FLAG, PROP_COMMENTS, CREATED_BY, CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS, OBJECT_VERSION_NUMBER,
MODULE, DETERMINANT_VALUE, TYPE, UI_DEFINITION) values
```

```
('MX_ADDRESS_FIELD_REGEX', 'OBDX', '^ [0-9A-Za-z/\-?:()., "+ !#$%&*^_`{}~\|";<>@[\\]]+$', 'Y',
'Regex for address fields.', 'ofssuser', sysdate, 'ofssuser', sysdate, null, null, 'OTHERMODULE',
'OBDX_BU', 'TXT', {'title':"Address fields
regex", "validator":"FREE_TEXT", "required":false, "message":"Specifies the regex for address
fields.", "extension":{"type":"length", "options":{"min":1, "max":100}}}
```

```
);
```

3.5 Migration Script for Existing Payees

To migrate international payees from MT-based to MX-based address structure, execute the following update query:

Insert Statement:

```
UPDATE digx_py_international_payee
SET
  MX_ADDRESS_TYPE = 'U',
  MX_ADDRESS_LINE1 = PAYEE_ADDRESS_LINE1,
  MX_ADDRESS_LINE2 = PAYEE_ADDRESS_LINE2,
  MX_ADDRESS_LINE3 =
  CASE
```



```
    WHEN PAYEE_CITY IS NOT NULL AND PAYEE_COUNTRY IS NOT NULL THEN PAYEE_CITY || ',' ||  
PAYEE_COUNTRY  
    WHEN PAYEE_CITY IS NOT NULL THEN PAYEE_CITY  
    WHEN PAYEE_COUNTRY IS NOT NULL THEN PAYEE_COUNTRY  
    ELSE NULL  
END;
```

This ensures that existing MT-format address data is correctly copied into the new MX-format address columns. The existing payees are migrated to Unstructured Address Type in MX-format.

4 Properties Configurations

To support multilingual and user-friendly labels for addresses and their fields, entries must be added to the Address.properties file.

4.1 Address Names Configuration

Each address entry from DIGX_CM_ADDRESS must have a corresponding key-value pair in Address.properties. Whenever an entry is made in the table corresponding entry has to be made in properties file to facilitate translation.

- **Key:** ID column value from DIGX_CM_ADDRESS
- **Value:** NAME column value from DIGX_CM_ADDRESS

Example:

```
Strct_Addr1=Address
```

4.2 Address Mapping Configuration

Each field used in DIGX_CM_ADDRESS_MAPPING should have a corresponding key-value pair in Address.properties. Whenever an entry is made in the table corresponding entry has to be made in properties file to facilitate translation.

- **Key:** DETERMINANT_VALUE (Entity) + . + ID column value from DIGX_CM_ADDRESS_FIELDS
- **Value:** NAME column value from DIGX_CM_ADDRESS_FIELDS

Example:

```
OBDX_BU.subDepartment=Sub Department
```

```
OBDX_BU.city=City
```

```
OBDX_BU.country=Country
```