

Oracle Banking Digital Experience

**Connector Credential Store Guide
Release 19.1.0.0.0**

Part No. F18558-01

May 2019

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/

Copyright © 2019, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

1. Preface.....	4
1.1 Intended Audience	4
1.2 Documentation Accessibility	4
1.3 Access to Oracle Support	4
1.4 Structure	4
1.5 Related Information Sources.....	4
2. Steps to Create Credential Mapping.....	5

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:

- Introduction to the transaction
- Screenshots of the transaction
- The images of screens used in this user manual are for illustrative purpose only, to provide improved understanding of the functionality; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.
- Procedure containing steps to complete the transaction- The mandatory and conditional fields of the transaction are explained in the procedure.
- If a transaction contains multiple procedures, each procedure is explained. If some functionality is present in many transactions, this functionality is explained separately.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 19.1.0.0.0, refer to the following documents:

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

2. Steps to Create Credential Mapping

- In WebLogic, go to Deployments, expand the deployed connector ear and click on Resource Adapter module.

Customize this table

Deployments

Install Update Delete Start Stop

Showing 1 to 64 of 64 Previous Next

Name	State	Health	Type	Targets	Deployment Order
adf.oracle.businesseditor(1.0,12.1.3.0.0)	Active		Library	AdminServer, clp	100
adf.oracle.domain(1.0,12.1.3.0.0)	Active		Library	AdminServer, clp	100
adf.oracle.domain.webapp(1.0,12.1.3.0.0)	Active		Library	AdminServer, clp	100
coherence-transaction-rar	Active	OK	Resource Adapter	AdminServer, clp	100
com.ofss.digx.app.connector	Active	OK	Enterprise Application	clp	0
Modules					
com.ofss.digx.connector.rar			Resource Adapter		
EJBs					
None to display					
Web Services					
None to display					
com.ofss.digx.app.service.rest	Active	OK	Enterprise Application	clp	0
com.ofss.digx.app.service.soap	Active	OK	Enterprise Application	clp	0
DMS Application (12.1.3.0.0)	Active	OK	Web Application	AdminServer, clp	5
em	Active	OK	Enterprise Application	AdminServer	400
emagentsdkimplpriv_jar(11.2.0.1.0,12.1.0.3.0)	Active		Library	AdminServer	100
emagentsdkimpl_jar(11.2.0.1.0,12.1.0.3.0)	Active		Library	AdminServer	100
emagentsdk_jar(11.2,12.1.0.3.0)	Active		Library	AdminServer	100
emas	Active		Library	AdminServer	100
emcore	Active		Library	AdminServer	100
emcoreclient_jar	Active		Library	AdminServer	100
emcorecommon_jar	Active		Library	AdminServer	100
emcoreconsole_jar	Active		Library	AdminServer	100

Fig.1 Deployed ear com.ofss.digx.app.connector, It has Resource Adapter Module com.ofss.digx.connector.rar

- Screen for Resource Adapter module's setting will open.
Click Security->Outbound Credential Mapping. This will display Outbound Credential Mappings table.

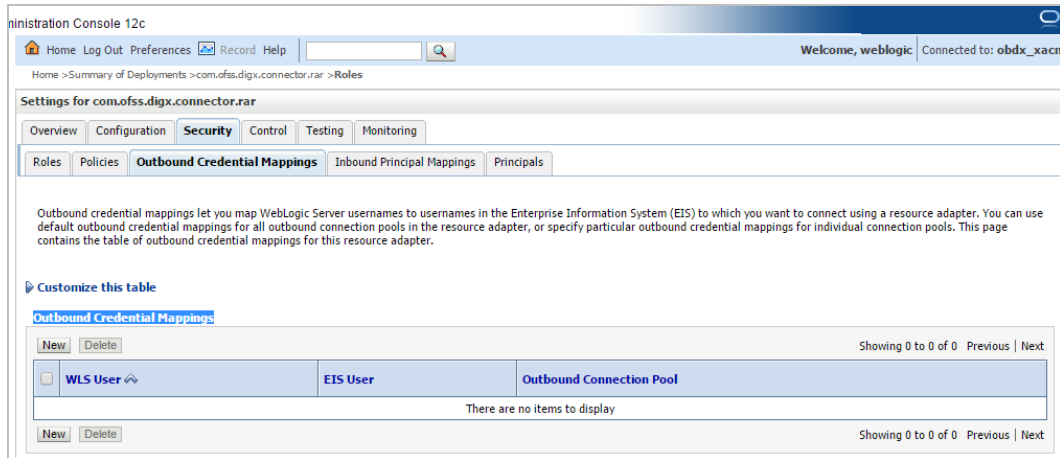


Fig.2 Shows setting for com.ofss.digx.connector.rar

- Click on New. This will display screen to create new security credential map entry. Also It shows Outbound Connection pool table. This table has Outbound Connection pool entry for each connection instance in weblogic-ra.xml in Resource Adapter along with default connection pool.

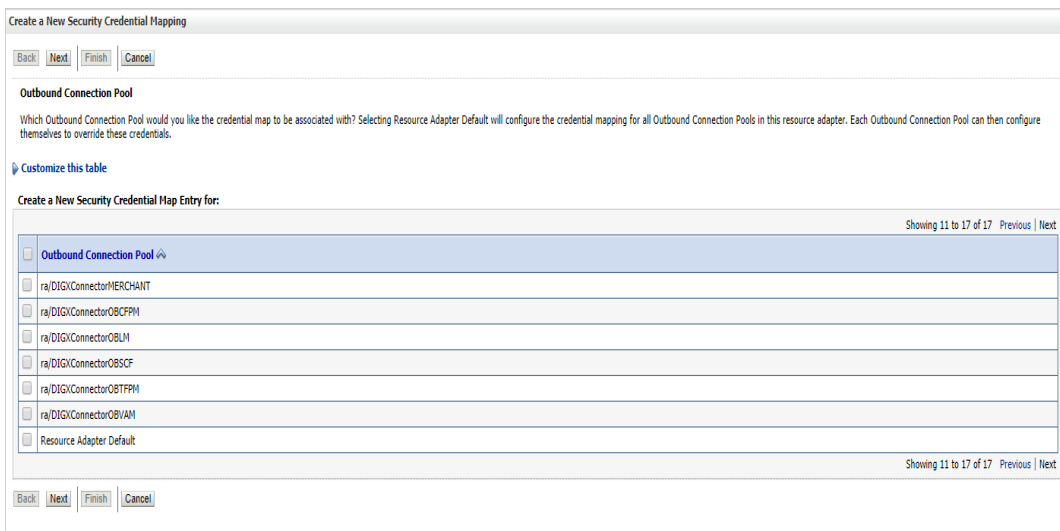


Fig.3 Shows Outbound Connection pool table. Fig 3.1 shows corresponding weblogic-ra.xml file

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Copyright (c) 2012, Oracle and/or its affiliates. All rights reserved. -->
<weblogic-connector xmlns="http://www.bea.com/ns/weblogic/90"
  xmlns:j2ee="http://java.sun.com/xml/ns/j2ee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.bea.com/ns/weblogic/90/weblogic-ra.xsd">

  <enable-access-outside-app>true</enable-access-outside-app>
  <enable-global-access-to-classes>true</enable-global-access-to-classes>
  <outbound-resource-adapter>
    <connection-definition-group>
      <connection-factory-interface>javax.resource.cci.ConnectionFactory
      </connection-factory-interface>
      <connection-instance>
        <jndi-name>ra/DIGXConnectorMERCHANT</jndi-name>
        <connection-properties>
          <pool-params>
            <initial-capacity>6</initial-capacity>
            <max-capacity>15</max-capacity>
            <capacity-increment>1</capacity-increment>
            <shrinking-enabled>true</shrinking-enabled>
            <shrink-frequency-seconds>60</shrink-frequency-seconds>
          </pool-params>
        </connection-properties>
      </connection-instance>
    </connection-definition-group>
  </outbound-resource-adapter>
</weblogic-connector>

```

Fig.3.1 weblogic-ra.xml

- Select Outbound connection pool to associate the credential map. And click Next. This will show screen to select weblogic server user.

Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: obdx_xa

Home > Summary of Deployments > com.oracle.digx.connector.rar > Roles

Create a New Security Credential Mapping

Back Next Finish Cancel

WebLogic Server User

Select the WebLogic Server User that you would like to map an EIS user to. Selecting 'User for creating initial connections' will configure the user that will be used for creating the initial connections when the resource adapter is first started. Selecting 'Default User' will configure the user that will be used as the default for any authenticated WebLogic Server user that does not have a credential mapping specifically for them. Selecting 'User for unauthenticated user' will configure the user that will be used for an unauthenticated WebLogic Server user. If you select 'Configured User' you must type in the WebLogic Server user that you are configuring. This user must be a configured WebLogic Server user.

☐ User for creating initial connections

☒ Default User

☐ Unauthenticated WLS User

☐ Configured User Name

WebLogic Server User Name:

Back Next Finish Cancel

Fig 4.Weblogic server user screen

- Select Default User. Selecting 'Default User' as WebLogic Server user will configure the user that will be used as the default for any authenticated WebLogic Server user that does not have a credential mapping specifically for them.
- And click Next.
Screen to configure username and password will appear. Enter username and password. As DIGX using AES(Advanced Encryption standard) as encryption and decryption algorithm, password must be 16 digit.

Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: obdx_xacml

Home > Summary of Deployments > com.ofss.digx.connector.rar > Roles

Create a New Security Credential Mapping

Back Next Finish Cancel

EIS User Name and Password

Configure the EIS User Name and Password that you would like to map the WebLogic Server User to:

* Indicates required fields

Enter the EIS User Name:

* EIS User Name:: MERCHANT

Enter the EIS Password:

* EIS Password::

* Confirm Password::

Back Next Finish Cancel

Fig 5. User name and password configuration

- Click Finish. The new security credential map entry will be created.

Administration Console 12c

Home Log Out Preferences Record Help Welcome, weblogic Connected to: obdx_xacml

Home > Summary of Deployments > com.ofss.digx.connector.rar > Roles

Messages

✓ The new security credential map entry for this resource adapter was successfully created.

Settings for com.ofss.digx.connector.rar

Overview Configuration **Security** Control Testing Monitoring

Roles Policies **Outbound Credential Mappings** Inbound Principal Mappings Principals

Outbound credential mappings let you map WebLogic Server usernames to usernames in the Enterprise Information System (EIS) to which you want to connect using a resource adapter. You can use default outbound credential mappings for all outbound connection pools in the resource adapter, or specify particular outbound credential mappings for individual connection pools. This page contains the table of outbound credential mappings for this resource adapter.

Customize this table

Outbound Credential Mappings

New Delete Showing 1 to 1 of 1 Previous Next

WLS User	EIS User	Outbound Connection Pool
<input type="checkbox"/> Default	MERCHANT	ra/DIGXConnectorMERCHANT

New Delete Showing 1 to 1 of 1 Previous Next

Fig 6. Credential map entry with username as MERCHANT associated with ra/DIGXConnectorMERCHANT connection pool.

- Table `digx_fw_config_all_b` must have entry with `category_id` as "CredentialConnector" and `prop_value` as selected Outbound Connection Pool with JNDI name as `prop_id`.

E.g. insert into `digx_fw_config_all_b` (`PROP_ID`, `CATEGORY_ID`, `PROP_VALUE`, `FACTORY_SHIPPED_FLAG`, `PROP_COMMENTS`, `SUMMARY_TEXT`, `CREATED_BY`, `CREATION_DATE`, `LAST_UPDATED_BY`, `LAST_UPDATED_DATE`, `OBJECT_STATUS`, `OBJECT_VERSION_NUMBER`)

values ('MERCHANT_RA_JNDIKEY', 'CredentialConnector', 'ra/DIGXConnectorMERCHANT', 'N', 'RA Connector JNDI Names for OFFLINE_CHANNEL', 'RA Connector JNDI Names for MERCHANT', 'ofssuser', SYSDATE, 'ofssuser', SYSDATE, 'Y', 1);

- Repeat the above process for creating a credential map for each Outbound Connection shown in [Fig.3](#).
- Table `digx_fw_config_all_b` must have entry with `category_id` as "CredentialConnector" and `prop_value` as selected Outbound Connection Pool with JNDI name as `prop_id`.
- Make sure to have following entries in `digx_fw_config_all_b` corresponding to each outbound connection pool if the credential map is configured for the same-

Eg.

(OBVAM- ra/DIGXConnectorOBVAM)

```
Insert                                into                                digx_fw_config_all_b
(PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,SUMMARY_TEXT,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTION)
```

values

```
('OBVAM_RA_JNDIKEY','CredentialConnector','ra/DIGXConnectorOBVAM','N','RA Connector JNDI Names for OBVAM','RA Connector JNDI Names for OBVAM','ofssuser',to_timestamp('30-MAR-19 09.54.30.000000000 AM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('30-MAR-19 09.54.30.000000000 AM','DD-MON-RR HH.MI.SSXFF AM'),'Y',1,'N',null);
```

(OBCFPM- ra/DIGXConnectorOBCFPM)

```
Insert                                into                                DIGX_FW_CONFIG_ALL_B
(PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,SUMMARY_TEXT,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTION)
```

```
values ('OBCFPM_RA_JNDIKEY','CredentialConnector','ra/DIGXConnectorOBCFPM','N','RA Connector JNDI Names for OBCFPM','RA Connector JNDI Names for OBCFPM','ofssuser',to_timestamp('10-04-19 04:13:28.000000000 PM','DD-MM-RR HH12:MI:SSXFF AM'),'ofssuser',to_timestamp('10-04-19 04:13:28.000000000 PM','DD-MM-RR HH12:MI:SSXFF AM'),'Y',1,'N',null);
```

```
Insert                                into                                DIGX_FW_CONFIG_ALL_B
(PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,SUMMARY_TEXT,CREATED_BY,CREATION_DATE,
LAST_UPDATED_BY, LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTION)
```

```
values('OBLM_RA_JNDIKEY','CredentialConnector','ra/DIGXConnectorOBLM','N','RA Connector JNDI Names for OFFLINE_CHANNEL','RA Connector JNDI Names for DIGX','ofssuser',to_timestamp('30-03-19 09:54:35.000000000 AM','DD-MM-RR HH12:MI:SSXFF AM'),'ofssuser',to_timestamp('30-03-19 09:54:35.000000000 AM','DD-MM-RR HH12:MI:SSXFF AM'),'Y',1,'N',null);
```

(OBTfPM- ra/DIGXConnectorOBTfPM)

```
Insert into DIGX_FW_CONFIG_ALL_B
```

```
(PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,S
```

UMMARY_TEXT,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTION)

values ('OBTFFPM_RA_JNDIKEY','CredentialConnector','ra/DIGXConnectorOBTFFPM','N','RA Connector JNDI Names for OFFLINE_CHANNEL','RA Connector JNDI Names for DIGX','ofssuser',to_timestamp('30-03-19 09:54:30.000000000 AM','DD-MM-RR HH12:MI:SSXFF AM'),'ofssuser',to_timestamp('30-03-19 09:54:30.000000000 AM','DD-MM-RR HH12:MI:SSXFF AM'),'Y',1,'N',null);

(OBSCF- ra/DIGXConnectorOBSCF)

Insert into DIGX_FW_CONFIG_ALL_B
(PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,SUMMARY_TEXT,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CATEGORY_DESCRIPTION)

values ('OBSCF_RA_JNDIKEY','CredentialConnector','ra/DIGXConnectorOBSCF','N','RA Connector JNDI Names for OBSCF OFFLINE_CHANNEL','RA Connector JNDI Names for OBSCF DIGX','ofssuser',to_timestamp('30-03-19 09:54:30.000000000 AM','DD-MM-RR HH12:MI:SSXFF AM'),'ofssuser',to_timestamp('30-03-19 09:54:30.000000000 AM','DD-MM-RR HH12:MI:SSXFF AM'),'Y',1,'N',null);