OBDX Caching Configuration Guide
Oracle Banking Digital Experience
Patchset Release 22.1.2.0.0

Part No. F56934-01

November 2022

ORACLE®

OBDX Caching Configuration Guide

November 2022

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/

Table of Contents

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.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Patchset Release 22.1.2.0.0, refer to the following documents:

- Oracle Banking Digital Experience Installation Manuals

ORACLE®

2. Introduction

This document contains information on caching and related configurations to be done for OBDX.

ORACLE®

3. Coherence Cache

Coherence cache is provided out the box in OBDX. Coherence uses TCMP protocol to discover cluster members, manage the cluster, provision services, and transmit data. It works on both multicast and unicast routings.

3.1 Multicast

Coherence by default uses multicast routing for communication. This is the default method for communication when using Coherence on OBDX as well.

In systems with ephemeral containers, multicast is the preferred option.

In cases where multicast routing is undesirable or not supported, unicast routing can be used.

3.2 Unicast

For enabling unicast routing for Coherence on OBDX, following changes needs to be done

- extend-client-config.xml   Replace extend-client-config.xml in digx-shared-libs.war/WEB-INF/classes with

- tangosol-coherence-override.xml   Replace **tangosol-coherence-override.xml** in **digx-coherence.war/WEB-INF/classes** with

- Add comma separated master servers' ip and ports in system properties (server start params in managed server in case of Weblogic)

  -Dwka.list=<IP1:PORT1>,<IP2:PORT2>

- Run below query in db

ORACLE®

Insert into digx_fw_config_all_b (PROP_ID,CATEGORY_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMM ENTS,SUMMARY_TEXT,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAS T_UPDATED_DATE,OBJECT_STATUS,OBJECT_VERSION_NUMBER,EDITABLE,CA TEGORY_DESCRIPTION) values ('COHERENCE_CACHE_ADDRS','dayoneconfig',<IP1:PORT1>,<IP2:PORT2>,'Y','Co herence servers addresses','Coherence servers addresses','ofssuser',sysdate,'ofssuser',sysdate,'Y',1,'N',null);

Please replace IP and PORT with respective values. Please note that all PORT values by default will be 9099. This can be configured in the provided tangosol-coherence-override.xml. Also note that master members should be about 10% of the cluster.

ORACLE®

4. Caches other than Coherence

OBDX can be customized to use other caches as well. This can be achieved by writing a custom java class implementing ***com.ofss.digx.infra.cache.ICache*** interface.

type method should return **CacheType.DISTRIBUTED** and priority should be kept greater than 1.

ORACLE®

5. Using Database

In situations where cache is undesirable, database can be used in place of a dedicated cache mechanism.

For turning off distributed caching and switching to database, run the below script and take a restart

update digx_fw_config_all_b set PROP_VALUE='false' where PROP_ID='DISTRIBUTED_CACHE_ENABLED';

Home

ORACLE®