Oracle® Banking Digital Experience
OBDX Caching Configuration Guide

Release 25.1.1.0.0

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Oracle Banking Digital Experience OBDX Caching Configuration Guide, Release 25.1.1.0.0

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Contents

Preface

Purpose

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

Before you Begin

Kindly refer to our **Getting Started User Guide** for common elements, including Symbols and Icons, Conventions Definitions, and so forth.

Pre-requisites

Specify **User ID** and **Password**, and login to **Home** screen.

Audience

This document is intended for the following audience:

- Customers
- Partners

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.

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Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

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

*   Oracle Banking Digital Experience Installation Manuals
*   Oracle Banking Digital Experience Licensing Manuals

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.

Convention	Meaning
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.

Acronyms and Abbreviations

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

Table 1   Acronyms and Abbreviations

Abbreviation	Description
OBDX	Oracle Banking Digital Experience

Post-requisites

After finishing all the requirements, please log out from the **Home** screen.

1
Introduction

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

2

Coherence Cache

This topic provides information on **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.

- [Unicast](#)
  This topic provides information on **Unicast**.

- [Multicast](#)
  This topic provides information on **Multicast**.

2.1 Unicast

This topic provides information on **Unicast**.

Unicast is the default routing used in OBDX for communication when using Coherence.For enabling unicast routing for Coherence on OBDX, following changes needs to be done.

- 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 database

```
INSERT INTO DIGX_CFG_CONFIG_ALL_B (PROP_ID, PROFILE, PROP_VALUE, EN-
TITY_SPECIFIC, EDITABLE, MANDATORY_OVERRIDE, PROPERTY_GROUP, CRE-ATED_BY,
CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE, OB-JECT_VERSION_NUMBER,
MODULE, SEQUENCE, VALIDATION, IS_ENUMERATED) VALUES
('DayOneConfig.COHERENCE_CACHE_ADDRS', 'DEV', <IP1:PORT1>,<IP2:PORT2>,
'N', 'Y', 'N', 'Day One', 'SYSTEM', sysdate, 'SYS', sysdate, 1, 'infra',
'-1', '.*', 'N');
```

Please replace IP and PORT with respective values. Please note that all PORT values by default will be 9099. Default port value can be changed using system property -Dcoherence.localport . Example : -Dcoherence.localport=9098

2.2 Multicast

This topic provides information on **Multicast**.

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.

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

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

```
<?xml version="1.0"?> <cache-config
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns="http://xmlns.oracle.com/coherence/coherence-cache-
config"
        xsi:schemaLocation="http://xmlns.oracle.com/coherence/coherence-cache-
config
        coherence-cache-config.xsd">
        <caching-scheme-mapping>
        <cache-mapping>
        <cache-name>cacheBankConfigurations</cache-name>
<scheme-name>obdx</scheme-name>
        </cache-mapping>
        <cache-mapping>
      <cache-name>cacheSessionObject</cache-name>
 <scheme-name>obdx</scheme-name>
        </cache-mapping>
        <cache-mapping>            <cache-name>cacheUserInfo</cache-
name>
<scheme-name>obdx</scheme-name>
        </cache-mapping>                        <cache-mapping>
<cache-name>cacheAccessPoint</cache-name>            <scheme-name>obdx</
scheme-name>
        </cache-mapping>                    <cache-mapping>
<cache-name>cacheTask</cache-name>          <scheme-name>obdx</scheme-
name>
        </cache-mapping>
        <cache-mapping>
      <cache-name>cachePartyPreference</cache-name>              <scheme-
name>obdx</scheme-name>
        </cache-mapping>                    <cache-mapping>
   <cache-name>cacheBankNames</cache-name>
<scheme-name>obdx</scheme-name>
        </cache-mapping>
        <cache-mapping>
      <cache-name>cachePasswordPolicy</cache-name>              <scheme-
name>obdx</scheme-name>
        </cache-mapping>                      <cache-mapping>
      <cache-name>cacheUserPreferences</cache-name>            <scheme-
name>obdx</scheme-name>
        </cache-mapping>
        <cache-mapping>
      <cache-name>cacheBusinessUnit</cache-name>              <scheme-
name>obdx</scheme-name>
        </cache-mapping>
        </caching-scheme-mapping>
        <caching-schemes>
        <remote-cache-scheme>            <scheme-name>obdx</scheme-
name>
        <service-name>ExtendTcpCacheService</service-name>
<initiator-config>
  <outgoing-message-handler>
        <request-timeout>5s</request-timeout>              </outgoing-
message-handler>
```

```
        <connect-timeout>5s</connect-timeout>                    </initiator-
config>
        </remote-cache-scheme>
        <remote-invocation-scheme>
      <scheme-name>extend-invocation</scheme-name>
        <service-name>ExtendTcpInvocationService</service-name>
        <proxy-service-name>ExtendTcpCacheService</proxy-service-
name>            <initiator-config>
<outgoing-message-handler>
        <request-timeout>5s</request-timeout>                    </outgoing-
message-handler>
</initiator-config>
        </remote-invocation-scheme>
        </caching-schemes>
    </cache-config>
```

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

```
<?xml version='1.0'?><coherence
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
        xmlns="http://xmlns.oracle.com/coherence/coherence-operational-
config"
        xsi:schemaLocation="http://xmlns.oracle.com/coherence/coherence-
operational-config
        coherence-operational-config.xsd">
        <cluster-config>
      <member-identity>
        <cluster-name>OBDXCluster</cluster-name>
      </member-identity>
        </cluster-config>
        <logging-config>
        <destination>coherence.log</destination>
        <severity-level>9</severity-level>
        </logging-config>
        <configurable-cache-factory-config>                    <init-
params>
        <init-param>
        <param-type>java.lang.String</param-
type>
        <param-value
        system-property="coherence.cacheconfig">OBDX-cache-configuration.xml</
param-value>
        </init-param>                    </init-params>
        </configurable-cache-factory-config>
    </coherence>
```

3
Caches other than Coherence

This topic provides information on **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.IDistributedCache** interface

type method should return **CacheType.DISTRIBUTED** and override priority method by providing the priority greater than 1.

4

Using Database

This topic provides information on **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_CFG_CONFIG_ALL_B SET PROP_VALUE='true' WHERE
PROP_ID='DayOneConfig.DISTRIBUTED_CACHE_ENABLED';
```

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