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Preface

- [Purpose](#)
- [Audience](#)
This manual is intended for the following User/User Roles:
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)

1.1 Purpose

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

1.2 Audience

This manual is intended for the following User/User Roles:

Table 1-1 User Roles

Role	Function
Implementation & IT Staff	Implementation & Maintenance of the Software

1.3 [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>.

Access to Oracle Support

Oracle customers that have purchased support 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 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 make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

1.5 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.

1.6 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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions.

The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

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Program agenda

1. [Introduction](#)
2. [Data Source Configuration](#)
3. [JTA Configuration](#)
 - [Introduction](#)
 - [Data Source Configuration](#)
 - [Cache Topic Cluster Setup](#)

3.1 Introduction

This document is prepared for the Weblogic Server Administrators who manage and configure the domain resources like managed server, cluster, datasource, JMS server etc.

Weblogic resources are created with a default value for each parameter. This document will only highlight those parameter whose value must be modified other than the default value.



Note:

These are the product recommended values which work for most cases. However during the product implementation one has to understand the product usage at site, monitor these resource utilization to see if the recommended parameter values are working for those usages and adjust the parameter values accordingly.

3.2 Data Source Configuration

Oracle Banking Payments require two types of data sources as mentioned in the setup guide. In this section we will list down the configuration parameter setting common for both types of datasource followed by setting for specific datasource.

Types of datasoruce:

1. Non-XA Datasource with JTA Support
2. Non-XA Datasource without JTA Support
3. XA Datasource
 - [Data Source Configuration – Common Setting](#)
 - [Data Source Configuration – Non-XA Datasource with JTA Support](#)
 - [JTA Configuration](#)

3.2.1 Data Source Configuration – Common Setting

Section	Parameter Name	Value	Description
Connection Pool	Initial Capacity	50	Pool will be reserved with this number of connections once created.
Connection Pool	Maximum Capacity	150	Maximum number of connections this pool can create.
Connection Pool	Minimum Capacity	50	Should be same as initial capacity. Shrinking configuration uses this value.
Connection Pool	Inactive Connection Timeout	900	Time duration for which a connection once in use can remain idle. After this time the connection will be release to a pool and a thread that is using this connection will get an exception.

3.2.2 Data Source Configuration – Non-XA Datasource with JTA Support

These are the datasources ending with _GTXN, used in a OLTP flow. These configuration enable the XA feature on the connection only when multiple resources are involved in a transaction, thereby eliminating the XA overhead in cases where a simple connection is sufficient.

Section	Parameter Name	Value	Description
Transaction	Supports Global Transaction	Check	Connections from this pool will be managed by Weblogic Transaction Manager (JTA) when this is enabled.
Transaction	Logging Last Resource	Select	This is an efficient option to enabled XA behavior on this connection when multiple resources are involved in a transaction. This connection will be the last one to get committed in a transaction.
Connection Pool	Inactive Connection Timeout	0	Disable the connection recovery at pool level. JTA timeout will control this.

3.2.3 JTA Configuration

Section	Parameter Name	Value	Description
JTA	Timeout seconds	18000	Time duration after which the transaction will be terminated and underneath resources will be released back to their respective pool.

3.3 Cache Topic Cluster Setup

To use Cache Topic in a cluster setup, the following setup are required:

- Configuration at the WebLogic Console level
- Additional changes are part of the OBPM deployment

- Configuration at the WebLogic console
 - For cluster setup Topic should be created as “Uniform Distributed Topic” with Forwarding Policy as “Partitioned”. Below are sample screenshot. If there any existing CACHE_TOPIC without uniform distribution type then delete same and create fresh.

JMS Modules / PMJMSModule / Topics / CACHE_TOPIC

Use this page to define the general configuration parameters for this topic, such as selecting a destination key for sorting messages as they arrive on the topic.

General Delivery Failure Logging Multicast Overrides Thresholds Referenced By

☐ Show Advanced Fields

Name* CACHE_TOPIC JNDI Name jms/CACHE_TOPIC

Template Sub Deployment Name PMSBD

- Topic should Advance target to Subdeployment which used for all other queues, connection factories and Target to JMS Server which is further targeted to Cluster.
JMS Server should target to Cluster
Please note Persistent store map to JMS Server should also map to Cluster.