

Oracle® Banking Microservices Architecture

Security Management System Services Installation Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Preface

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Purpose

This guide helps the user to install the SMS Core services on designated environment. It is assumed that all the prior setup is already done related to WebLogic installation, WebLogic managed server creation and Oracle DB installation.

It is recommended to use dedicated managed server for SMS Core services.

**Note:**

For the exact version to be installed, refer to **Software Prerequisites** section in **License Guide**.

Audience

This guide is intended for WebLogic admin or ops-web team who are responsible for installing the OFSS banking products.

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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 Documents

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

- *Configuration and Deployment Guide*

Acronyms and Abbreviations

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

Table 1 Acronyms and Abbreviations

Abbreviation	Description
DB	Database
JDK	Java SE Development Kit
SMS	Security Management System

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Database Setup

This topic describes about the database setup for SMS services.

The user need to setup database related configuration for SMS Installation. It is recommended to create separate schema for SMS database setup.

Prerequisites

Before proceeding with setup, make sure that the schemas are created and pre-installation setup is done.

The pre-installation setup includes the configuration of database. After creating the schema for each of the required microservices, DDLs, and INCs of each micro-service to be compiled in the respective schemas. The DDLs and INCs ensures the creation of tables and availability of static data required for the execution of services. These are compiled automatically using flyway.

Database Setup

The required service and schema to setup database for SMS are as follows:

Table 1-1 Service and Schema

Service Name	Schema Required
SMS-CORE-SERVICE	Yes

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Domain and Cluster Configuration

This topic describes about the domain and cluster configuration for SMS services.

Prerequisites

1. Machine should have Java JDK has installed.
2. Oracle Fusion Middleware has to be installed on the machine.

 **Note:**

Before proceeding with below steps, complete Oracle Banking Microservices Services installation guided.

3. Steps for creating domain, properties like port numbers, names will be changing based on the domain. Screenshots provided for such deviations. Domain creation process remains the same.

 **Note:**

For the exact version to be installed, refer to **Software Prerequisites** topic in **License Guide**.

Steps to Create Domain

It is recommended to have different managed server in one domain for SMS application.

 **Note:**

For Creating Domain and Configuration, refer to **Domain and Cluster Configuration** topic in **CONFIGURATION AND DEPLOYMENT GUIDE**.

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Data Sources Creation

This topic describes about the data sources creation for SMS services.

Prerequisites

Before proceeding with the below setup, make sure that the domain and server are created.

Data Sources List

The below lists of the data sources has to be created on each domain before deploying the applications onto the managed servers.

Table 3-1 Data Sources List

Data source Name	Data source JNDI	Targets
PLATO	jdbc/PLATO	SMS Managed Server, API Gateway Server
SMS	According to the JNDI created for each entity. For DEFAULTENTITY the JNDI should be jdbc/SMS	
PLATO_UI_CONFIG	jdbc/PLATO_UI_CONFIG	
PLATOBATCH	jdbc/PLATOBATCH	



Note:

For creating the data source, refer to **Create Data Source** topic in **CONFIGURATION AND DEPLOYMENT GUIDE**.

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Deployments

This topic describes about the deployments for SMS services.

Prerequisites

Before proceeding with the below setup, make sure that the previous steps are completed.

Deployments List

The below list of the deployments required on each domain for the SMS application to run.



Note:

For the exact version of the archive name, refer to the OSDC file available as a part of the release.

Table 4-1 Deployments List

Application	Archive Name	OSDC Path
SMS-CORE-SERVICES	sms-core-services-{version}.war	{Unzip the OSDC file} SMS\



Note:

To deploy the application, refer to the **Deploy Application** topic in **CONFIGURATION AND DEPLOYMENT GUIDE**.

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Restarts and Refresh

This topic describes about the restarts and refresh the server.

Once everything is deployed, restart all the managed servers. For each application, call path `/refresh` to refresh the configuration properties.

Restart Server

To restart the server, refer to **Restart Servers** topic in **CONFIGURATION AND DEPLOYMENT GUIDE**.

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Logging Area

This topic describes about the logging area where the SMS Application is deployed in WebLogic server.

SMS Application writes logs in the below area of the server-
<WEBLOGIC_DOMAIN_CONFIG_AREA/servers/SMSAPP/logs/SMSAPP.out

Assume a domain is created **sms_domain** with **managed_server** name called **SMSAPP** in the following area of the server /scratch/oracle/middleware/user_projects/domains/sms_domain. The logging area for SMS would be /scratch/oracle/middleware/user_projects/domains/sms_domain/servers/SMSAPP/logs/SMSAPP.out.

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