Oracle Financial Services Analytical Applications

Migration Guide for OFSAA 8.0.x.x.x on AIX or Solaris x86 to Solaris SPARC or Linux (Pre-8.1.0.0.0 Release Upgrade)

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OFSAA Migration Guide for OFSAA 8.0.x.x.x on AIX or Solaris x86 to Solaris SPARC or Linux (Pre-8.1.0.0.0 Release Upgrade)

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Document Control

Version Number	Revision Date	Change Log
1.0	September 2020	Created the migration guide to assist in the migration from an OFSAA 8.0.x.x.x instance on the IBM AIX Operating System (OS) or Oracle Solaris x86 to an Oracle Solaris SPARC or Oracle Linux Operating System before upgrading to OFSAA 8.1.x.x.x.

Table of Contents

1 Preface 5

1.1 Audience 5
1.2 Additional Resources 5
1.3 Conventions Used 5

2 Getting Started 7

2.1 About this Guide 7
2.2 Acronyms 7

3 Migrate your OFSAA 8.0.x.x.x Instance on AIX or Solaris x86 to Solaris SPARC or Linux8

3.1 Prepare the Oracle Database 19c 8
3.2 Migration Procedure 9

1 Preface

To migrate an OFSAA v8.0.x.x.x instance on the IBM AIX or Oracle Solaris x86 Operating System (OS) to an Oracle Solaris SPARC or Oracle Linux OS before upgrading to Oracle Financial Services Analytical Applications (OFSAA) v8.1.x.x.x. This document is applicable to OFSAA v8.0.x.x.x to v8.1.x.x.x.

Topics:

- Audience
- Additional Resources
- Conventions Used

1.1 Audience

This document is intended for the system administrators migrating an OFSAA v8.0.x.x.x instance on an IBM AIX or Oracle Solaris x86 OS to an Oracle Solaris SPARC or Oracle Linux OS before upgrading to OFSAA v8.1.x.x.x.

1.2 Additional Resources

This section identifies additional resources for the migration of an OFSAA v8.0.x.x.x instance on the IBM AIX or Oracle Solaris x86 OS to an Oracle Solaris SPARC or Oracle Linux OS before upgrading to OFSAA v8.1.x.x.x.

- To access the online documentation for the OFSAA v8.1.x.x.x Release applications, see the Oracle Help Center (OHC).
- To install Oracle Database 19c Server and Client, see the Oracle Database 19c Install and Upgrade Guides.
- For information on the OS versions supported, see the Oracle Financial Services Analytical Applications 8.1.0.0.0 Technology Matrix.

To find additional information about how Oracle Financial Services solves real business problems, see our website at www.oracle.com/financialservices.

1.3 Conventions Used

The following table lists the conventions used in this guide.

Table 1: Conventions Used

Convention	Meaning
Italics	• Names of books, chapters, and sections as references • Emphasis

Convention	Meaning
Bold	• The object of an action (menu names, field names, options, button names) in a step-by-step procedure • Commands typed at a prompt • User input
`Monospace`	• Directories and subdirectories • File names and extensions • Process names • Code sample, including keywords and variables within the text and as separate paragraphs, and user-defined program elements within the text
<Variable>	Substitute input value

2 Getting Started

The aim is to provide instructions in this guide to help migrate your OFSAA v8.0.x.x.x instance from an IBM AIX or Oracle Solaris x86 OS to an Oracle Solaris SPARC or Oracle Linux OS. Oracle recommends the migration from AIX or Solaris x86 to Solaris SPARC or Oracle Linux to accommodate the OFSAA application upgrades from v8.0.x.x.x to v8.1.x.x.x releases because AIX and Solaris x86 is no longer supported in OFSAA v8.1.x.x.x releases.

Topics:

- About this Guide
- Acronyms

2.1 About this Guide

This guide has information to migrate an OFSAA v8.0.x.x.x instance on the IBM AIX or Oracle Solaris x86 Operating System (OS) to an Oracle Solaris SPARC or Linux OS before upgrading to OFSAA v8.1.x.x.x. For other procedures such as OFSAA installation and administration, see the Additional Resources section.

2.2 Acronyms

The following table describes the acronyms commonly used in this application.

Table 2: Acronyms

Acronyms	Description
AIX	IBM Advanced Interactive eXecutive (AIX) Operating System
BA	Business Analysts
Infodom	Information Domain
MOS	My Oracle Support
Navigation Tree Menu or Navigation Menu	Left menu
OEL	Oracle Linux
OFS AAI	Oracle Financial Services Analytical Application Infrastructure
OFSAA	Oracle Financial Services Analytical Applications
OS	Operating System
Production Infodom	Production Information Domain
Sandbox Infodom	Sandbox Information Domain
SA	System Administrator
Solaris SPARC	Oracle Solaris SPARC
URL	Uniform Resource Locator
UI	User Interface

3 Migrate your OFSAA 8.0.x.x.x Instance on AIX or Solaris x86 to Solaris SPARC or Linux

The migration procedure requires you to prepare the database before migrating OFSAA and then proceed with the migration. The following sections provide the details.

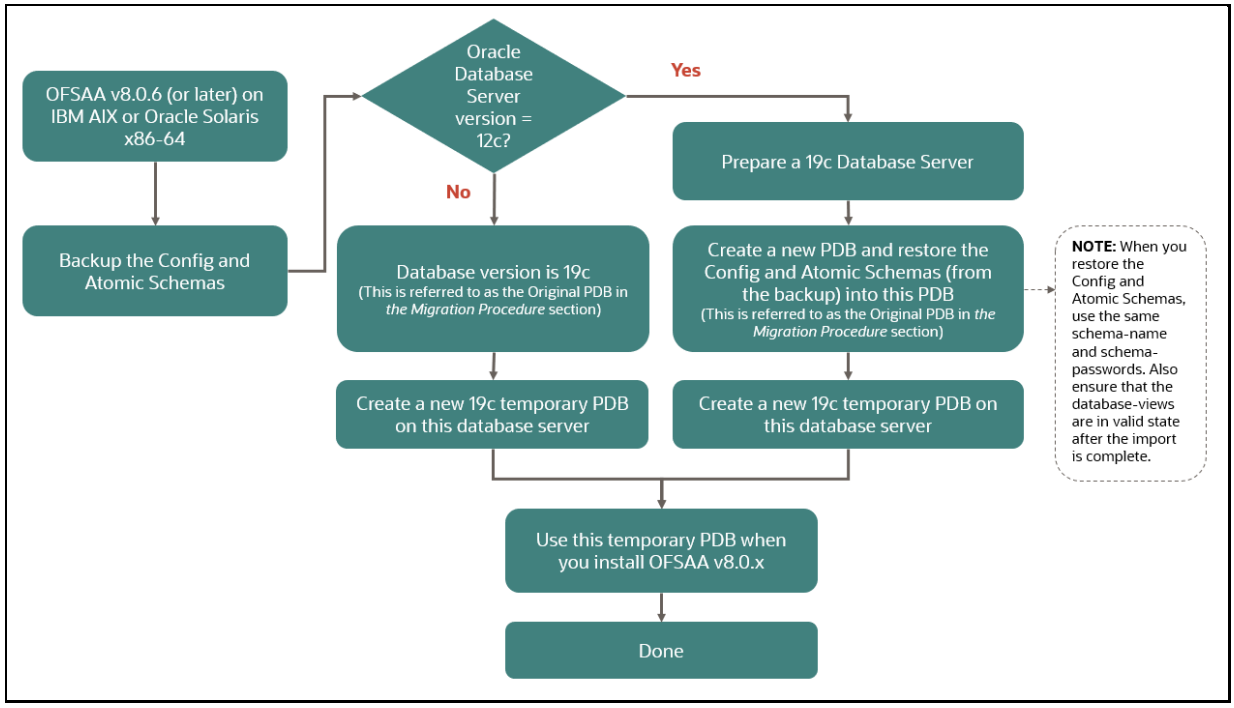
Topics:

- Prepare the Oracle Database 19c
- Migration Procedure

3.1 Prepare the Oracle Database 19c

Before you start the migration, prepare the database environment as shown in the following illustration.

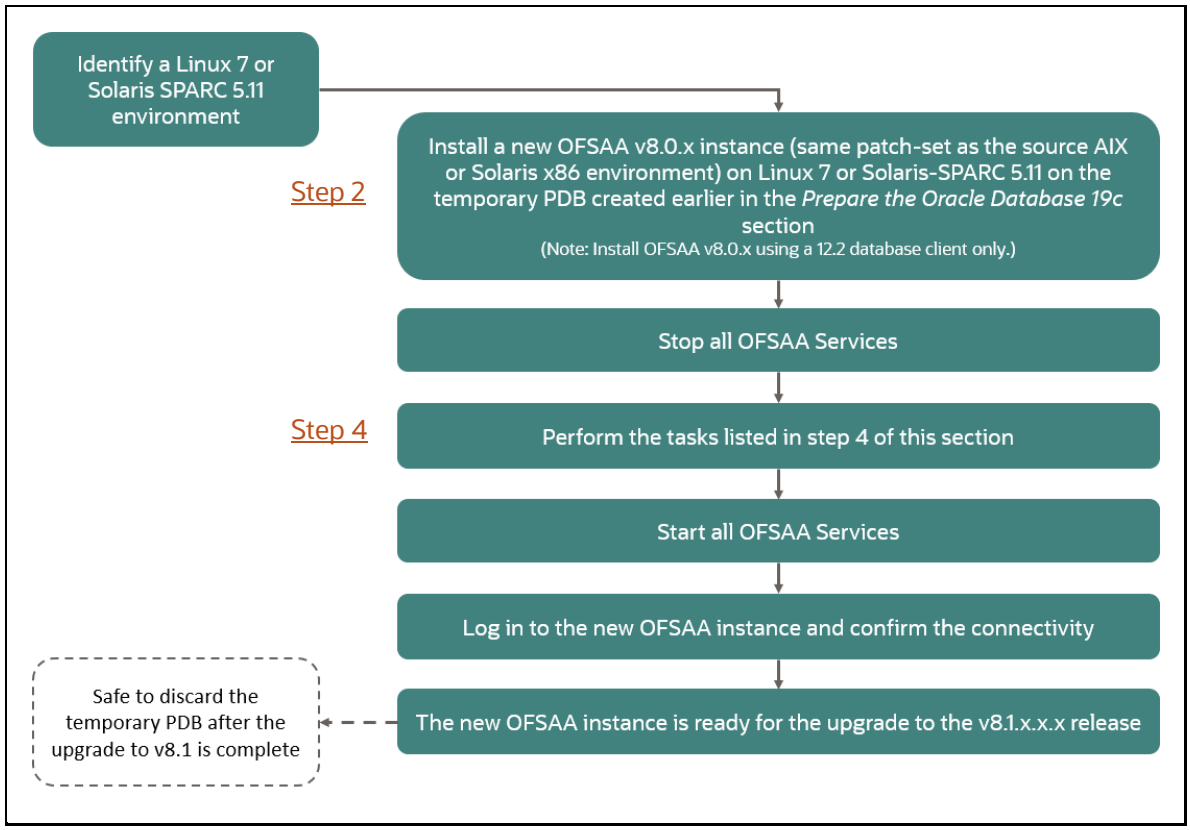
Figure 1: Preparation of the Temporary PDB from Oracle Database Release 12c or 19c



3.2 Migration Procedure

After preparing the database environment, migrate OFSAA from AIX or Solaris x86 to Linux or Solaris SPARC using the procedure in this section.

Figure 2: Migrate OFSAA from AIX or Solaris x86 to Linux or Solaris SPARC



To migrate an OFSAA instance from AIX or Solaris x86 OS to Solaris SPARC or Oracle Linux, follow these steps:

1. Identify the Oracle Solaris SPARC or Oracle Linux OS machine where you plan to migrate the OFSAA v8.0.x.x.x instance and check for version compatibility. For Oracle Solaris SPARC and Oracle Linux OS versions supported in v8.1.x.x.x, see the Oracle Financial Services Analytical Applications 8.1.0.0.0 Technology Matrix.

> **NOTE** If your web server is IBM WebSphere on AIX, then Oracle Linux should be the target OS for OFSAA v8.1x.x.x. Solaris SPARC is not supported on IBM WebSphere.

2. Install the OFSAA v8.0.x.x.x instance in the machine where you prepared the temporary PDB. See the Prepare the Oracle Database 19c section for more information.

> **NOTE** Install the OFSAA v8.0.x.x.x instance using a 12.2 database client only.

- Maintain the same Infodom name in the source and target OS setups. This configuration is related to schema creation.
- Maintain the following installation parameters identical as in the AIX or Solaris x86 instance when you configure the `OFSAAI_InstallConfig.xml` file:
  - Paths such as `FIC_HOME`, `FTPSHARE`, and deployed area paths

ATTENTION

- Installation Directory: where the product files will be installed. Assign 755 permission to this directory and set it as `FIC_HOME`.
- Staging Area or Metadata Repository (also referred to as the `FTPSHARE` directory) where the application metadata artifacts are stored and also act as the staging area for flat files. The directory should exist on the same system as the OFSAA Installation. This directory can be configured on a different mount or under a different user profile. However, the owner of the installation directory must have RWX permissions on this directory. Assign 775 permission to this directory.

  - Schema names and passwords used during schema creation
  - Database client and ports
  - Context name and web server type

ATTENTION

- Context name is the web application context name that will be used to build the URL to access the OFSAA application.
- Web server type is the web application server on which the OFSAA Infrastructure web components will be deployed.

NOTE Check the respective application installation guides for information about the preceding parameters from the OHC.

3. Shutdown all OFSAA services on the AIX or Solaris x86 server except the database.
4. Perform the following tasks:
   a. Copy the `FTPSHARE` directory from the AIX or Solaris x86 environment to the new server.

b. Replace the `Reveleus.SEC` and `AESCryptKey.ext` encryption key files from the `$FIC_HOME/conf` directory of the AIX or Solaris x86 server to the respective paths in the Oracle Linux or Solaris SPARC server.

c. Replace the `AESCryptKey.ext` encryption key file from the `$FIC_HOME/ficweb/webroot/conf` directory of the AIX or Solaris x86 server to the respective paths in the Oracle Linux or Solaris SPARC server.

d. Point this new environment to the config and atomic schemas of the *Original PDB* by replacing the **JDBC URL**. Run the PortC Utility on the Oracle Linux or Solaris SPARC setup.

For more information, see the *Running Port Changer Utility* section in the Oracle Financial Services Advanced Analytical Applications Infrastructure Administration Guide.

> **NOTE** The preceding action also changes the IP and hostname of the AIX or Solaris x86 setup to that of the Oracle Linux or Solaris SPARC setup.

e. Update the ICC Batch related **BATCH_PARAMETER_MASTER** and **BATCH_PARAMETER** tables for the new IP after you run the PortC Utility. Execute the following SQL queries after replacing `<NEW IP/HOST_NAME>` with the hostname or IP address of the Oracle Linux or Solaris SPARC setup and commit the changes:

```
update batch_parameter_master v_parameter_value='<NEW IP/HOST_NAME>'
where v_parameter_name='IP Address'
```

```
update batch_parameter v_parameter_value='<NEW IP/HOST_NAME>' where
v_parameter_name='IP Address'
```

If the Distributed Activation Manager (AM) is enabled on the OFSAA instance in the AIX or Solaris x86 environment, see the *Distributed Activation Manager (AM) Based Processing* section in the Oracle Financial Services Advanced Analytical Applications Infrastructure Administration Guide for the hostname and IP address specifications.

f. Modify the `ORACLE_SID` parameter in the `.profile` file of the Oracle Linux or Solaris SPARC setup as shown in the following:

```
ORACLE_SID=<SID of Original PDB>
```

```
export ORACLE_SID
```

g. Modify the connection pool settings in the web server on the Oracle Linux or Solaris SPARC environment to that of the **JDBC URL** of the AIX or Solaris x86 setup. See the *Configuring Resource Reference in Web Application Servers* section in the Oracle Financial Services Advanced Analytical Applications Infrastructure Installation Guide for information on connection pool settings.

h. On the Oracle Linux or Solaris SPARC OFSAA server, open the command prompt, navigate to the `$FIC_WEB_HOME` directory, and execute the `./ant.sh` command. The EAR or WAR file – `<contextname>.ear/.war` – is created in the `$FIC_WEB_HOME` directory.

On completion of EAR or WAR file creation, the message: *BUILD SUCCESSFUL* is displayed.

i. Deploy the EAR or WAR file in the webserver of the OFSAA instance on the Oracle Linux or Solaris SPARC environment.

5. In the OFSAA instance on the Oracle Linux or Solaris SPARC environment, start all services and check if they are activated.
6. Test user login and sample batch executions for correct functioning.

   The new OFSAA environment is ready for the upgrade to the v8.1.x.x.x release.
7. Upgrade the OFSAA v8.0.x.x.x instance to the OFSAA v8.1.x.x.x instance in the machine where the Oracle Solaris SPARC or Oracle Linux OS is installed.

   To upgrade to an OFSAA v8.1.x.x.x instance, see the *Upgrade* sections in the *Installation Guides* of the respective applications in the OHC.

> **NOTE** You can skip the steps related to cloning that is described in the Upgrade sections in the Installation Guides as it is not required during this migration.

OFSAA Support

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA applications.

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