

Java Accounting Installation  
Oracle FLEXCUBE Universal Banking  
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# 1. Java Accounting Installation

## 1.1 Introduction

This document provides steps to configure Application Server for JAVA Accounting Integration with Oracle FLEXCUBE Universal Banking.

## 1.2 Prerequisites

Java Accounting installation requires a Weblogic domain.

**NOTE:** In the following sections, 10.10.10.10 IP address and 1010 port are used as an example. Use valid IP and Port of corresponding server.

## 1.3 Server Setup

Java AC Setup includes two sets of services:

- INFRA Services
- JAVA AC Services

This section contains following subsections:

- [1.3.1 INFRA Services](#)
- [1.3.2 Java AC Services](#)
- [1.3.3 Linux Server Setup](#)
- [1.3.4 Windows Server Setup](#)

### 1.3.1 INFRA Services

There are two services under this category.

- **Discovery Service:** This service is required for Java AC Services Registration. On start-up all Java AC services will be registered with Discovery Service. The registered services can make inter-service calls by making use of Discovery Service.

Service Name: *plato-discovery-services-5.0.0.war*

- **Config Service:** All the configuration related details will be stored in a database table (table name: PROPERTIES). Config service provides the required configuration details for the corresponding Java AC Services during service start up.

Service Name: *plato-config-services-5.0.0.war*

### 1.3.2 Java AC Services

This includes ECA and Accounting service INFRA services, and Java AC Services must be deployed on two separate Managed Servers (Any name can be given to Managed Servers).

1. **ConfigServer:** In this managed server, INFRA Services should be deployed (*plato-discovery-services-5.0.0.war* and *plato-config-services-5.0.0.war*).
2. **JavaACServer:** In this managed server, all the Java AC services should be deployed.

Following Data Sources have to be created for INFRA and Java AC Services:

Data Source JNDI Name	Type	Targets
jdbc/OBAC	Non-XA Datasource	JavaACServer
jdbc/PLATO	Non-XA Datasource	JavaACServer, ConfigServer
jdbc/PLATOBATCH	Non-XA Datasource	JavaACServer

### 1.3.3 Linux Server Setup

Include the following lines in *setDomainEnv.cmd* or *setDomainEnv.sh* of the Weblogic domain:

```
JAVA_OPTIONS="{JAVA_OPTIONS} {JAVA_PROPERTIES} -Dflyway.enabled=false -  
Dspring.flyway.enabled=false -Dplato.services.config.uri=http://<config-server-ip>:<config-  
server-port> -Dplato.service.logging.path=<Debug Path where Logs are to be written>" -  
Dserver.id=<server id>  
export JAVA_OPTIONS
```

For example,

```
JAVA_OPTIONS="{JAVA_OPTIONS} {JAVA_PROPERTIES} -Dflyway.enabled=false -  
Dspring.flyway.enabled=false -Dplato.services.config.uri=http://10.10.10.10:1010 -  
Dplato.service.logging.path=/mnt/FC144/ACLogs" -Dserver.id=1  
export JAVA_OPTIONS
```

### 1.3.4 Windows Server Setup

Include the following line in *setDomainEnv.cmd* or *setDomainEnv.sh* of the Weblogic domain:

```
set JAVA_OPTIONS=%JAVA_OPTIONS% %JAVA_PROPERTIES% -  
Dplato.services.config.uri=http://<config-server-ip>:<config-server-port> -Dflyway.enabled=false -  
Dspring.flyway.enabled=false -Dplato.service.logging.path=<Debug Path where Logs are to be  
written> -Dserver.id=<server id>
```

For example,

```
set JAVA_OPTIONS=%JAVA_OPTIONS% %JAVA_PROPERTIES% -Dflyway.enabled=false -  
Dspring.flyway.enabled=false -Dplato.services.config.uri=http://10.10.10.10:1010 -  
Dplato.service.logging.path=D:/ACLogs -Dserver.id=1
```

Server Id parameter should be a number used to uniquely identify an application instance. If only one deployment of a service is present, this value has to be set to **1**. In case of multiple deployments, number needs to be changed from 1 to the number of instances can be assigned to the server, where deployment is done.

Alternatively, if the parameters need to be set specific to a Managed Server, where Services are deployed, then these properties can be set in **Servers > Managed Server > Server Start** in the argument section.

**NOTE:** It will be useful only if Node-Manager is used to start managed servers.

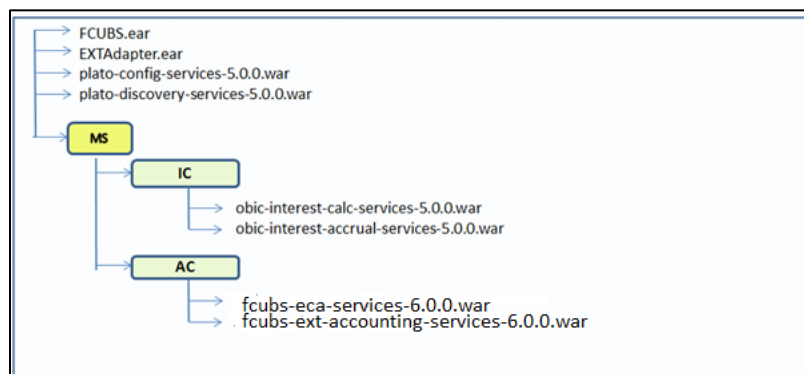
<b>Java Home:</b>	<input type="text"/>	The Java home directory (path on the machine running Node Manager) to use when starting this server. <a href="#">More Info...</a>
<b>Java Vendor:</b>	<input type="text"/>	The Java Vendor value to use when starting this server. <a href="#">More Info...</a>
<b>BEA Home:</b>	<input type="text"/>	The BEA home directory (path on the machine running Node Manager) to use when starting this server. <a href="#">More Info...</a>
<b>Root Directory:</b>	<input type="text"/>	The directory that this server uses as its root directory. This directory must be on the computer that hosts Node Manager. If you do not specify a Root Directory value, the domain directory is used by default. <a href="#">More Info...</a>
<b>Class Path:</b>	<input type="text"/>	The classpath (path on the machine running Node Manager) to use when starting this server. <a href="#">More Info...</a>
<b>Arguments:</b>	<pre>-Dflyway.enabled=false -Dspring.flyway.enabled=false - Dplato.services.config.uri=http://10.10.10.10:1010 - Dplato.service.logging.path=D:/ACLogs -Dserver.id=1</pre>	The arguments to use when starting this server. <a href="#">More Info...</a>

## 1.4 WAR Deployment after Build

As part of FCUBS EAR build, in addition to FCUBS EAR, Java AC wars and INFRA wars will get copied into the destination location.

Below are the locations where the wars will be copied after build:

1. **FCUBS Application EAR and All Adapter EARs:** Available in the destination folder.
2. **INFRA Service WARs:** *plato-discovery-services* war and *plato-config-services* war will be available in the destination folder.  
Deploy all the INFRA Service WARs in **ConfigServer**.
3. **Java AC Service WARs:** All the Java AC Service WARs will be copied in “AC” folder under the destination folder.  
Deploy all the Java AC Service WARs are in **JavaACServer**.



## 1.5 Order of Server Start

After deployment or server restart, services have to be started in following sequence:

- a. plato-config-service
- b. plato-discovery-service
- c. Java AC Services

When servers are restarted, ensure to start **ConfigServer** first and then **JavaACServer**. On every restart of **ConfigServer**, *plato-discovery-service* must be stopped and started. This is required as Discovery requires properties entries for self-registration to be picked from *plato-config-service*. In order to check if all the services have started, below discovery URL can be checked:

<http://<config-server-ip>:<config-server-port>/plato-discovery-service>

For example,

<http://10.10.10.10:1010/plato-discovery-service>

**NOTE:** All the deployed Java AC Services should get listed in the service discovery URL.

## 1.6 OBAC Maintenance in FCUBS

Below maintenances are required in FCUBS:

### 1. Properties Maintenance (CSDPROPM):

- Launch the screen and query for entry present in LOV for Reference Number:

The screenshot shows the 'Csdpropm\_Desc' window. At the top, there are buttons for 'Unlock', 'Authorize', and 'Enter Query'. Below these, the 'Reference Number' is set to '10101096'. The 'Service URL' is 'http:// 10.10.10.10:1010 /plato-discovery-service/eureka' and the 'Service Port' is '1010'. There are radio buttons for 'Update Service Details' with 'Service' selected and 'All' unselected. The main area is divided into two tables: 'Service Names' and 'Service Details'. The 'Service Names' table has columns 'Service Name' and 'Service Description'. The 'Service Details' table has columns 'Key' and 'Value'. The 'Service Names' table lists several services, with 'fcubs-ext-accounting-services' selected. The 'Service Details' table lists 'plato.services.eureka.uri', 'server.port', and 'plato.services.entityservices.port'. At the bottom, there is a status bar with fields for 'Maker LIJO04', 'Date Time: 2014-01-01 12:40:59', 'Mod No 42', 'Record Status Open', 'Checker', 'Date Time:', 'Authorization Unauthorized Status', and an 'Exit' button.

Service Name	Service Description
<input checked="" type="checkbox"/> fcubs-ext-accounting-services	fcubs ext accounting services
<input type="checkbox"/> obic-charge-calc-services	obic charge calc services
<input type="checkbox"/> obic-intchg-accting-services	obic intchg acting services
<input type="checkbox"/> obic-interest-accrual-services	obic interest accrual services
<input type="checkbox"/> obic-interest-allocate-services	obic interest allocate services
<input type="checkbox"/> obic-interest-batch-services	obic interest batch services

Key	Value
<input checked="" type="checkbox"/> plato.services.eureka.uri	http:// 10.10.10.10:1010 /plato-discovery-service/eureka
<input type="checkbox"/> server.port	1010
<input type="checkbox"/> plato.services.entityservices.port	1010

Maker LIJO04 Date Time: 2014-01-01 12:40:59 Mod No 42 Record Status Open  
Checker Date Time: Authorization Unauthorized Status Exit

- Unlock the screen, Select All for **Update Service Details**, and update the Service URL and Service Port to as below:

Service URL: <http://<config-server-ip>:<config-server-port>/plato-discovery-service/eureka>

Service Port: JavaACServer Managed Server Port

### 2. External Source Preferences (ACDPARAM):

The screenshot shows the 'External Source Preferences' window. It has a table with columns 'Source Code', 'Auto Generate Reference Number', and 'Process Code'. The first row has 'Source Code' as '\*' and 'Auto Generate Reference Number' as checked. The 'Process Code' is 'ZEXA'. Below the table, there is a section for 'External Statement Preferences' with a dropdown menu for 'Statement Reference Number' set to 'Transaction Reference Number'.

Source Code	Auto Generate Reference Number	Process Code
<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/>	ZEXA

External Statement Preferences  
Statement Reference Number Transaction Reference Number

If the Transaction reference no has to be generated by DDA system corresponding details has to be maintained using ACDPARAM.



## Java Accounting Installation

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