Java Accounting Installation
Oracle FLEXCUBE Universal Banking
Release 14.8.3.0.0

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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> - Dspring.cloud.loadbalancer.ribbon.enabled=false

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 -Dspring.cloud.loadbalancer.ribbon.enabled=false

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> - Dspring.cloud.loadbalancer.ribbon.enabled=false

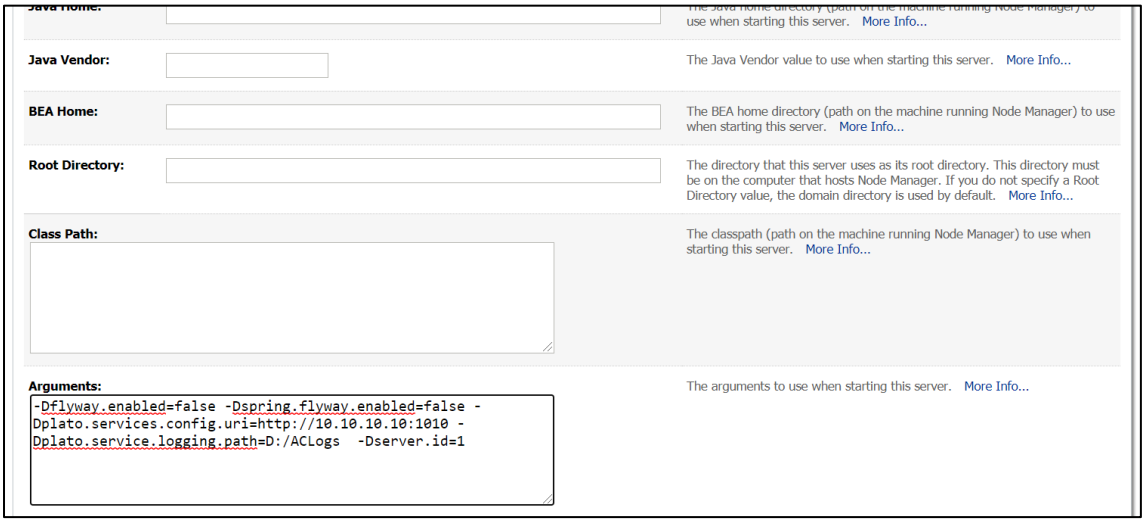
For example,

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 -Dspring.cloud.loadbalancer.ribbon.enabled=false

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.



1.4 WAR Deployment after Build

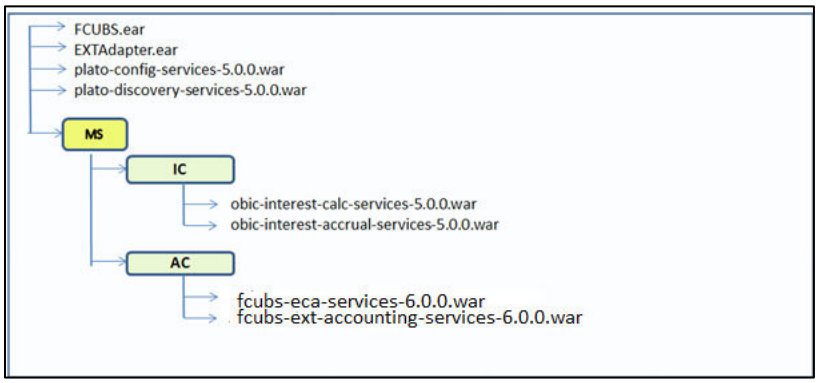
As part of FCUBS EAR build, in addition to FCUBS EAR, Java AC wars and INFRA wars will get copied into the destination location.

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

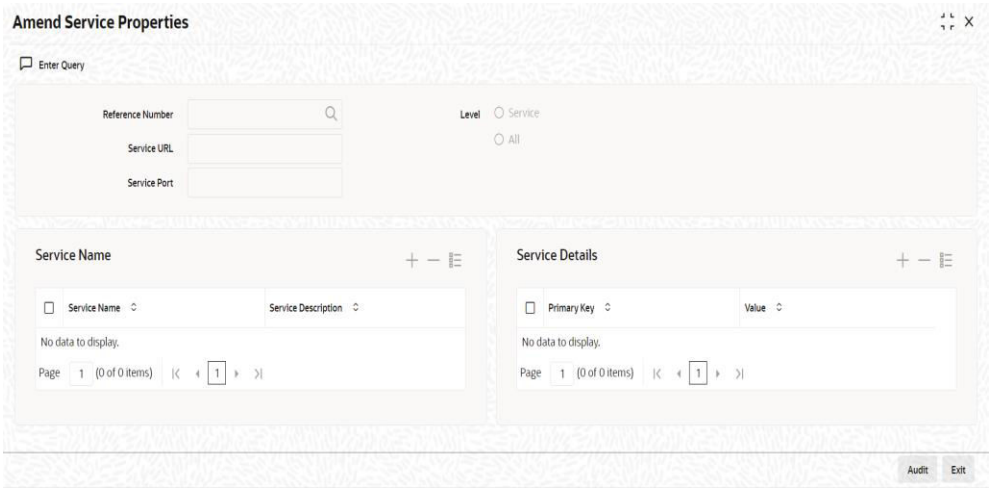
NOTE: All the deployed Java AC Services should get listed in the service discovery URL.

1.6 OBAC Maintenance in FCUBS

Below maintenances are required in FCUBS:

1. Properties Maintenance (CSDPROPM):

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

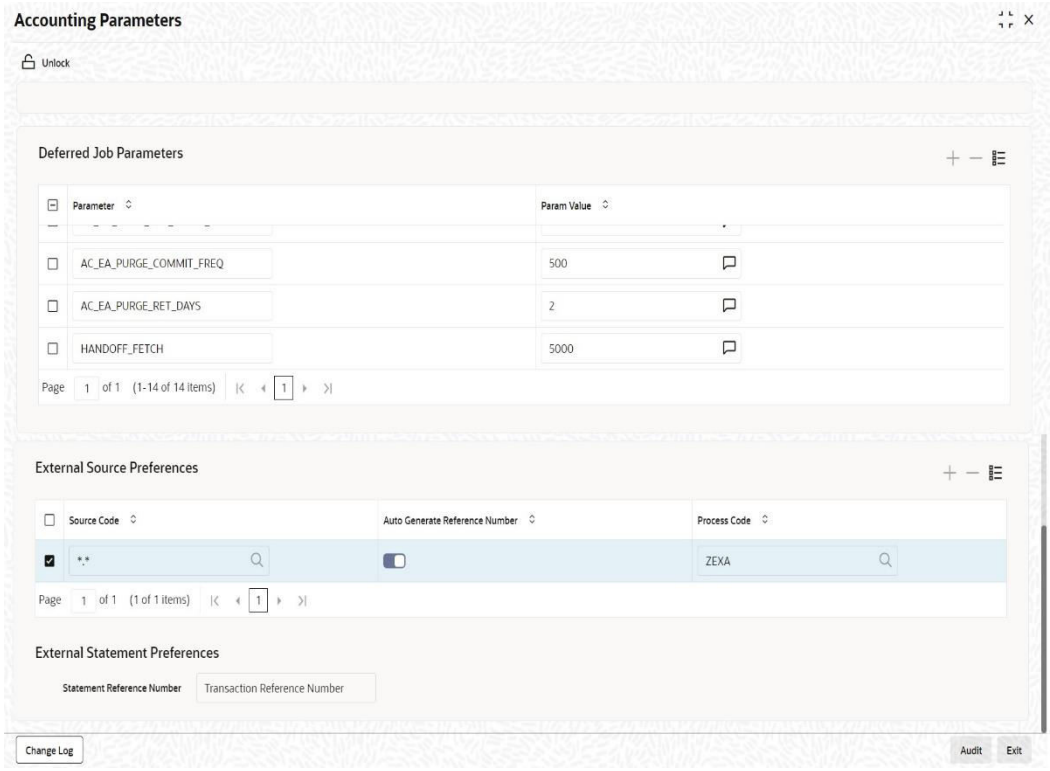


   Note: For the Primary key **obac.account.lock.timeout**, the value should be given in milliseconds for the 14X version and it should be seconds for 12X versions by default.

   b. 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):



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



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