Oracle **Go**

How to Create ESS Job Set in Oracle Fusion

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Today's Presenters

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Today's Agenda

1. Overview of Managing Job Definitions and Job Sets
2. Typical creation of Job Sets
3. System Properties for Job Sets
4. Update Existing Setup Data
5. Typical FAQs
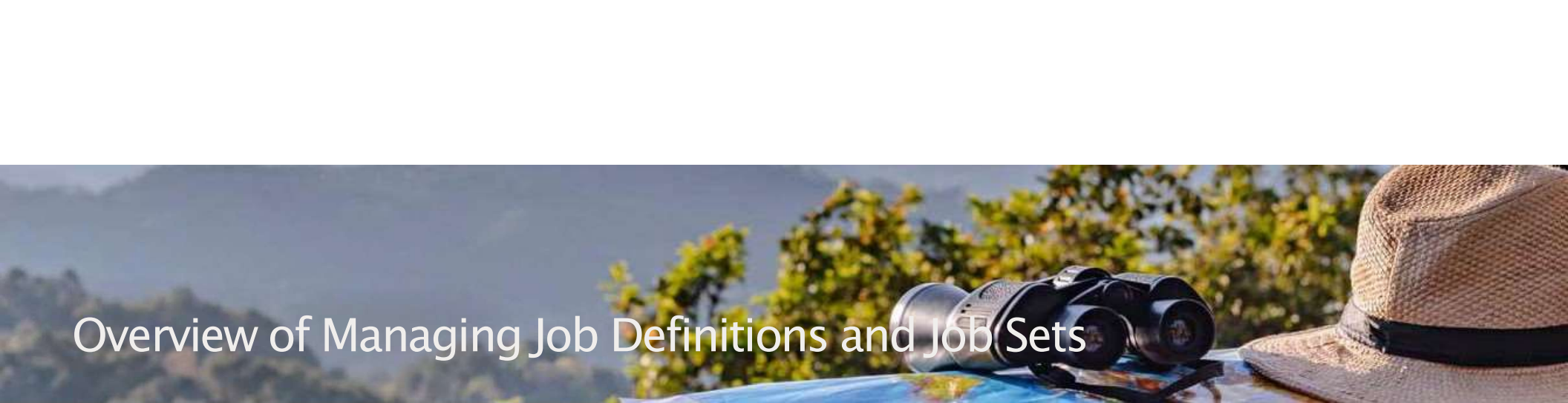
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Overview of Managing Job Definitions and Job Sets

Overview of Managing Job Definitions and Job Sets

- Scheduled processes are used based on jobs to process data and to provide report output.

- Each job requires a job definition

- **Job Definitions**: Contain the metadata about the job and the options available to users

- **List of Values Sources**: Determine where a list of values for the parameters in a job definition comes from and what the specific values are

- **Job Sets**: Collections of several jobs in a single process set that the users submit instead of running separate jobs.

Benefits of Job sets:

- Job sets help customize your needs where the seeded functionality is not there

- Lessen user intervention

- Enables Job dependency

- Enables parallel Job execution

Overview of Managing Job Definitions and Job Sets

The various Enterprise Scheduler Jobs tasks are:

1. Manage Enterprise Scheduler Job Definitions and Job Sets for **Financial, Supply Chain Management,** and Related Applications

2. Manage Enterprise Scheduler Job Definitions and Job Sets for **Human Capital Management** and Related Applications

3. Manage Enterprise Scheduler Job Definitions and Job Sets for **Customer Relationship Management** and Related Applications

Note : Available from Setup and Maintenance work area

Overview of Managing Job Definitions and Job Sets

This table describes the columns in the table on the Manage Job Definitions tab.

Field Name	Description
Name	Name of the job definition.
Display Name	Name of the job definition as available to users while submitting scheduled processes.
Path	The full directory path where the job definition is saved.
Job Application Name	Application for which the job definition belongs to like EarHcmEss
Job Type	The name of the job type that the job definition is based on. • BIPJobType: Jobs that run as Oracle Analytics Publisher reports If create a brand-new job definition (not by duplicating an existing one), the only job type can use is BIPJobType.

Overview of Managing Job Definitions and Job Sets

Manage Enterprise Scheduler Job Definitions and Job Sets for Human Capital Management and Related Applications ⑦

Manage Job Definitions   Manage List of Values Sources   Manage Job Sets

Create Job Definition

▲ Job Definition   Show More

* Display Name   Process A

* Name   ProcessA

* Path   ProcessA

Application   Application Toolkit

* Job Application Name   EarHcmEss

☐ Enable submission from Enterprise Manager

* Job Type   BIPJobType

☐ Bursting report

Overview of Managing Job Definitions and Job Sets

This table describes the Header fields of Job sets .

Field Name	Description
Name	Provide a name with only alphanumeric characters, for example, ExportMetadataTables1. **Note**: A job set name cannot have space or any special character.
Display Name	Provide a name that the users see while submitting the scheduled process.
Description	Provide more information about what the job set does.
Package	Specify the path where you want to save the job set.

Overview of Managing Job Definitions and Job Sets

Manage Job Definitions   Manage List of Values Sources   **Manage Job Sets**

Create Job Sets

Job Set

* Name   XX_Test_Jobset

* Display Name   XX_Test_Jobset

Description   Test JobSet

Package   /oracle/apps/ess/custom   XX_Test_Jobset

Typical creation of Job Sets

Typical creation of Job Sets

➢ ESS Job Set is useful when there's a need to run multiple ESS jobs for any activity

➢ Depending on requirement, Choose the Job set Type

➢ Below are the Two Types,

- **Serial**: The jobs are executed in a sequence one after the other
- **Parallel**: The jobs are executed in parallelly at a time

Note: Either Serial or Parallel type can be chosen for jobs processing

Typical creation of Job Sets

Prerequisites

1. Identify the jobs to be included in ESS Job Set.
2. Run these jobs individually. This will ensure that the jobs are running without issues and users will be able to collect runtime information about the ESS jobs.
3. Ensure name of the web module to be same for all the jobs that are part of the job set
4. Gather Runtime Parameters like Application and Definition names.

Typical creation of Job Sets

<u>Creation of Job Set</u>

a) Navigate to the product specific task. In this example "**Manage Custom Enterprise Scheduler Jobs for HCM Core Processes**"

b) Click on **Manage Job Sets** tab.

Manage Enterprise Scheduler Job Definitions and Job Sets for Human Capital Management and Related Applications ⑦

Manage Job Definitions   Manage List of Values Sources   **Manage Job Sets**

Actions ▼ View ▼   ✚ ▤ ✎ ⊟ ⬚ Detach

Typical creation of Job Sets

c) Click on '+' and Enter the new job set details.

Typical creation of Job Sets

d) Choose **Serial** or **Parallel** depending on how the jobs need to run.
e) Click on the **Add Job Set Step** button to add the first job details.

Typical creation of Job Sets

f) Give a name for Step ID. Note: Make sure to add Step ID without space or '_'
g) Search for first Job. For example, search by Name *ProcessA*

Typical creation of Job Sets

h) Click on the Add Job Set Step button to add the second job details
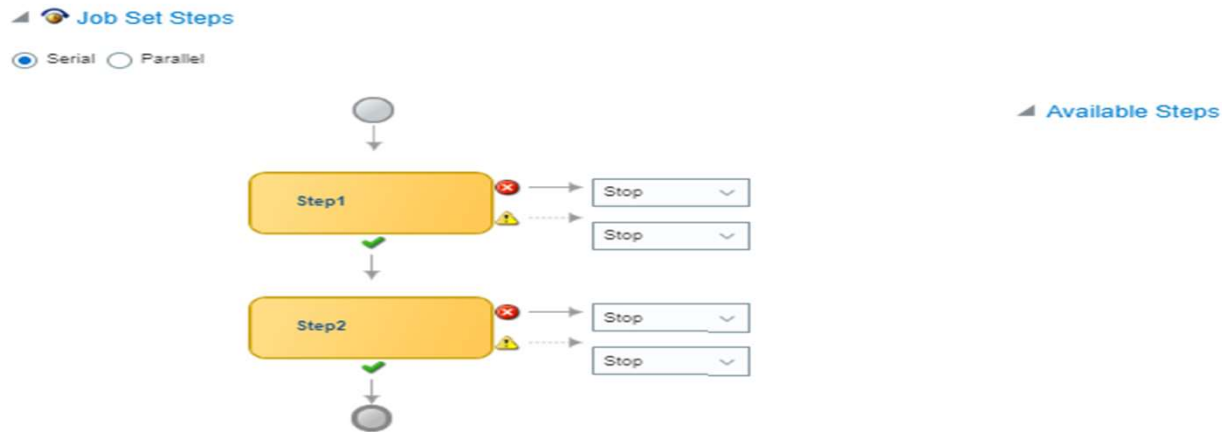i) Now search on Name *ProcessB*

Typical creation of Job Sets

J) After adding 2 Jobs, the flow looks like below for a Serial Job Set

Typical creation of Job Sets

K) Under the System Properties add the **SYS_effectiveApplication** as the value as **EarHcmEss**

Add System Property

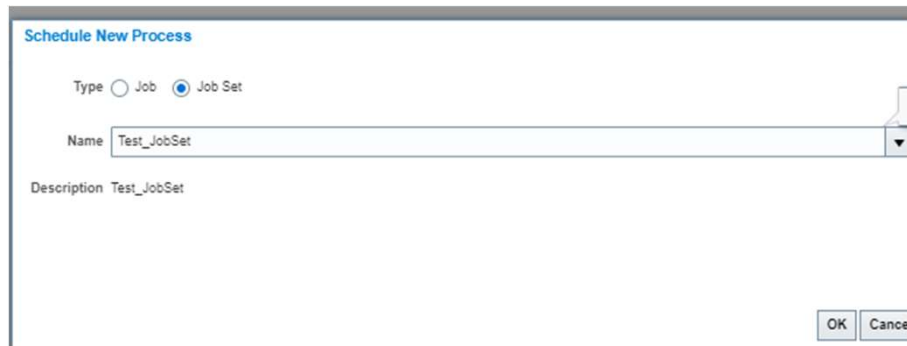|	
* Name	SYS_effectiveApplication
Type	String
Initial Value	EarHcmEss
	☐ Read Only

L) Save the Job set

Typical creation of Job Sets

How to Submit the Job set:

1. Navigate to **Scheduled Processes**
2. Choose Type Job Set
3. Search for the job set created

Typical creation of Job Sets

How to Submit the Job set:

4. Enter the parameters for the first job step, by selecting Process A

Typical creation of Job Sets

How to Submit the Job set:

5. Enter the parameters for the second job step, by selecting Process B

Typical creation of Job Sets

How to Submit the Job set:

6 Submit the Job set

7. At completion notice that there are three process IDs.

Typical creation of Job Sets

How to Submit the Job set:

Note:
when you create a job set, a privilege with the same name as the job set is automatically created with a Run prefix. For example, for a job set named ExportAppsData, with display name Export Application Data, the privilege code is **RUN_EXPORTAPPSDATA**.

This Privilege needs to be assigned to the other users, If any user Is not able to view or submit the Custom ESS Job Set.

System & Application Properties for Job Sets

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System And Application Properties for Job Sets

➤ **Application Defined Properties** are the additional properties that the user has to enter during runtime

Property Name	Description	Value	Type
srsFlag	A boolean parameter (Y or N) that controls whether the job displays in the job request submission user interface. Enter Y.	Y	Application
EXT_PortletContainerWebModule _application	The name of the web module for the Oracle Enterprise Scheduler Central UI application to use as a portlet when submitting a job request.	ORA_HCM_UI	Application
enableDuplicateJobWithParamTaskflow	When property is set to True, it can be used to run a single job multiple times with different parameter	True	Application

System And Application Properties for Job Sets

➤ **System Properties** are the additional settings that determine how a job set runs. For example, you can use a system property to determine the number of retries for a job set that fails to execute.

Property Name	Description	Value	Type
SYS_effectiveApplication	Specifies the logical name of the Scheduling Services folder application that is the effective application used to process the request. You can associate a job definition, job type, or a job set step with a different application by defining the **EFFECTIVE_APPLICATION** system property. This property can only be specified through metadata and cannot be specified as a submission parameter.	EarHcmEss	System
SYS_priority	Specifies the request processing priority. The priority interval is 0 to 9, where 0 is the lowest priority and 9 is the highest. If this property is not specified, the default value used is 4.	Not mandatory	System
SYS_retries	Specifies the retry limit for a failed request. If request execution fails, the request is retried up to the number of times specified by this property until the request succeeds. If the retry limit is zero (0), a failed request is not retried. If this property is not specified, the default value used is 0.	Not Mandatory	System

Update Existing Setup Data

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Update Existing Setup Data

➢ You can select job steps in the Job Set Steps section and edit, remove, or reorder (for Serial only). You can also switch between Serial and Parallel.

1. Navigate to the product specific task. In this example "**Manage Custom Enterprise Scheduler Jobs for HCM Core Processes**"
2. Click on **Manage Job Sets** tab.
3. Search for the Job set
4. Click on Pencil Icon to edit the Job set

Update Existing Setup Data

5. Select the Step which needs to be edited or removed

6. Make changed as per your requirement.
7. Save and close the changes

Typical FAQs

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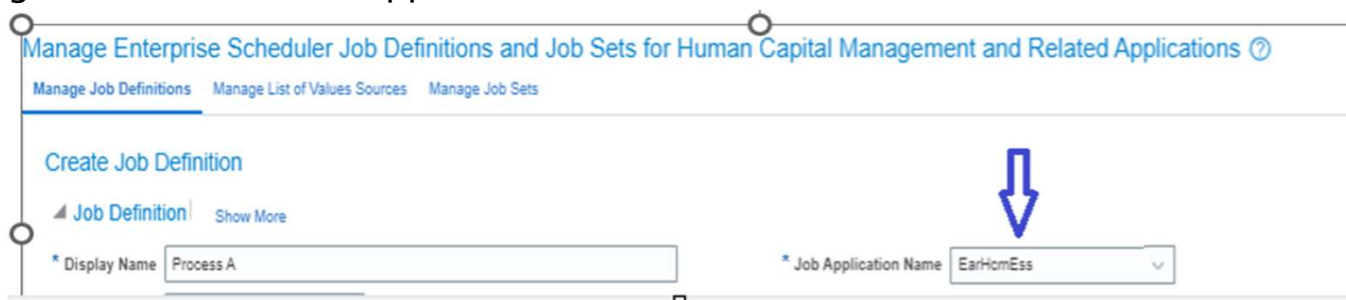
FAQ:

1. What do I select for job application name when I create a job definition?

    Answer: Select from the Job Application Name list depends on the setup task you're using.

- Select <u>CrmEss</u> when using task Manage Enterprise Scheduler Job Definitions and Job Sets for Customer Relationship Management and Related Applications:

- Select <u>FscmEss</u> when using task Manage Enterprise Scheduler Job Definitions and Job Sets for Financial, Supply Chain Management, and Related Applications:

- Select <u>EarHcmEss</u> when using task Manage Enterprise Scheduler Job Definitions and Job Sets for Human Capital Management and Related Applications task:

FAQ:

2. How to verify the EXT_PortletContainerWebModule parameter value ?

    Answer: query the **FUSION.ESS_REQUEST_PROPERTY**

        Example of SQL for Two Process IDs:
        select REQUESTID, VALUE
        from FUSION.ESS_REQUEST_PROPERTY
        where requestid in (<PROCESS ID A>,<PROCESS ID B>)
        and name='EXT_PortletContainerWebModule'

Results   Statistics   Plan

Execution Time (seconds) 0.021

REQUESTID	VALUE
9609528	ORA_HCM_UI
9609530	ORA_HCM_UI

FAQ:

3. How to verify the application Name ?

   Answer: query the **FUSION.ESS_REQUEST_HISTORY**

   Example of SQL for Two Process IDs:

   select REQUESTID, APPLICATION, DEFINITION
   from FUSION.ESS_REQUEST_HISTORY
   where requestid in (<PROCESS ID A>,<PROCESS ID B>)

Results	Statistics	Plan		
			Execution Time (seconds) 0.028	
REQUESTID		**APPLICATION**	**DEFINITION**	
9609528		EarHcmEss	JobDefinition://oracle/apps/ess/hcm/users/AseInactiveUsersDataLoadJob	
9609530		EarHcmEss	JobDefinition://oracle/apps/ess/hcm/users/AseInactiveUsersJob	

FAQ:

4 . How many jobs can have in a Job set.

Answer: A job set can contain any number of individual jobs as well as other job sets. There can also be multiple levels of nested job sets within a single job set. For example, a job set can include three jobs and two job sets, one of which contains another job set.

5. Error code : **ESS-01035** Unable to determine a logical application name for new request.

Answer: In this case **SYS_effectiveApplication** Property is missing

Add System Property

* **Name**	SYS_effectiveApplication ▾
Type	String
Initial Value	EarHcmEss
	☐ Read Only

FAQ:

6. **ESS-01031** – Application <incorrect_app_name> was not found.

   Answer: In this case **SYS_effectiveApplication** parameter is set with an incorrect value

7. How to view already run Job sets from scheduled process UI?

   Answer: From Tools >> Schedule Processes >> Hierarchy view

FAQ:

8. Can I use same program/report multiple times within same Job set?

 Answer: Yes, but need to define "**enableDuplicateJobWithParamTaskflow**" Application defined parameter as true at Job set level.

9. When changing Job set, does it require sign out/sign back in?

 Answer: As a best practice, it is advised to sign out/sign back in for any Job set changes to reflect before executing.

10.   Is there any Soap API/webservice to submit Job Set?

 Answer: Yes, https://myPOD.**fa**.myDC.oraclecloud.com/ess/esswebservice?wsdl

FAQ:

11. **ESS-01028** Request submission or validation failed. oracle.as.scheduler.MetadataServiceException: Failed to get Jobset with name JobSet://oracle/apps/ess/custom/XXXXXX: **ESS-02002** User XXXXX does not have sufficient privilege to perform operation READ.

Answer: Due to Privilege issue, ESS job set privileges need to be assigned to User.

Demo: Create Job Set & Submit Job Set

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Questions & Answers

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Access

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