**APPENDIX D**

# SAP Fiori Background Jobs

**Introduction**

In this appendix, we will cover some useful **SAP Fiori reports and background jobs**, which are scheduled processes that run behind the scenes to perform various tasks, such as data processing, reporting, or system maintenance. These jobs are crucial for maintaining the SAP systems’ performance and efficiency without interrupting users' day-to-day activities. Background jobs in SAP Fiori are managed through the SAP Job Scheduling Management (JSM) tool, which allows administrators to define, schedule, and monitor them.

### Setup Details

Here are the lists of some of the terminology definitions used for setting up the background jobs, and they are as follows:-

**Job Definition:-** Each background job in SAP Fiori has specific parameters that dictate its task. These include the program or function module to be executed, input parameters, and the variant— a predefined set of inputs that can be reused.

**Job Frequency:-** Jobs can be scheduled to run at various frequencies, depending on the nature of the task. Standard job frequencies include:-

* + **One-time jobs:-** These are scheduled to run once at a specific date and time.
  + **Periodic jobs:-** These are scheduled at regular intervals, such as daily, weekly, or monthly.
  + **Event-driven jobs:** Specific system events, such as the completion of another job or a change in system status, trigger these jobs.

**Job Monitoring:-** SAP provides tools within the Fiori interface to monitor the status of background jobs. Administrators can view job logs, check the success or failure of jobs, and manage errors that occur during job execution.

**Job Prioritization:-** Background jobs can be prioritized based on their importance to the business processes. High-priority jobs might be scheduled to run during off-peak hours to minimize the impact on system performance, while lower-priority jobs can run during less critical times.

**Error Handling:-** If a background job fails, SAP Fiori provides detailed error logs that help administrators diagnose and fix the issue. Jobs can be rescheduled or adjusted as needed to ensure successful execution.

### Types of Jobs

SAP Fiori background jobs are automated processes that run in the background of an SAP system to handle tasks such as data processing, reporting, and system maintenance without user intervention. These jobs ensure essential operations are performed consistently and efficiently without disrupting day-to-day activities. In an SAP Fiori environment, background jobs are typically managed through the SAP Job Scheduling Management (JSM) tool, which allows administrators to define, schedule, monitor, and control these tasks. The jobs can be expected to run at specific times or intervals, such as daily, weekly, or monthly, depending on the business's needs. Specific events within the system may also trigger some background jobs. Effective management of these jobs is critical for maintaining system performance and ensuring that key processes are executed reliably, even during off-peak hours or when the system is under heavy load.

**Data Archiving Jobs:-** These jobs manage the archiving of old data to maintain system performance and reduce storage costs.

**Batch Input Jobs:-** Used for mass data processing, such as uploading large datasets into the system.

**Report Generation Jobs:** These jobs run reports at scheduled intervals, updating key business metrics regularly.

**System Maintenance Jobs:-** These jobs involve routine tasks such as database cleanup and index rebuilding.

### Running Background Jobs:-

To set up a background job in SAP Fiori, use Transaction **SM36** in the SAP GUI, not in SAP Fiori, to define a background job. Steps involved for defining Background Job are:

* Enter the transaction code **SM36** in the command field.
* In the **Job Name** field, provide a **name** for your job.
* Under **Job Class**, you can select the priority (**A**, **B**, or **C**).
* Click the **Start Condition** button to define when the job should start. You can schedule it to run immediately at a specific time or regularly.
* Click the Step button to define the job steps, such as the program to execute or the specific ABAP/4 report.
* **Save** your job.

### Viewing Background Jobs:-

The transaction code **SM37** monitors or reviews background jobs that are already scheduled or have been completed. Steps involved for defining the review Background Job are:

* Enter the transaction code **SM37** in the command field.
* In the **Job Name** field, you can enter the job name you are interested in (or leave it blank to view all jobs).
* Enter additional selection criteria, such as **username** (who scheduled the job), **Job Status** (scheduled, released, ready, active, finished, or canceled), and a date and time range.
* Click **Execute (F8)** to view the job list that matches your criteria.
* From the list, you can select a job and then click on the **Job Log** button to view details of the job execution, including any errors or messages.

### Checking Specific Jobs

### If you are interested in specific background jobs (like those mentioned earlier), you can schedule them manually through SM36 or view their status through SM37. For particular jobs related to SAP Fiori and UI5, you may need to know their exact names or programs to view or execute them.

**Note:-** These transactions give you control over managing, monitoring, and troubleshooting background jobs in SAP, ensuring that the necessary tasks are completed

* Top of Form
* Bottom of Form

### Lists of Jobs

In SAP Fiori and SAP UI5, several background jobs are scheduled to ensure the smooth operation and performance of the system. Here is a brief explanation of the key jobs:-

* **/UI5/APP\_INDEX\_CALCULATE:-** This job calculates and updates the SAPUI5 application index, which is essential for caching and indexing for SAPUI5 applications and components. This ensures improvement in performance so that metadata (Catalog, Tiles, and Target Mappings) can be retrieved efficiently and the application index remains consistent and up-to-date.

It is recommended to run this job whenever SAPUI5 apps are being deployed, if any existing Fiori apps are modified and updated, after support pack upgrades and patch installations, and also can run as part of regular maintenance and housekeeping activities.

This job could be run On Demand or scheduled to run daily or weekly.

* /**UI5/UPD\_ODATA\_METADATA\_CACHE:-** This job updates the OData metadata cache, which is essential for the efficient operation of OData services by preventing repeated metadata retrieval. This job ensures that the most current metadata is available after any services are modified and deployed thus helping in application loading time.

It is recommended to run this job whenever any OData service are modified or activated, when UI components are upgraded or patches are installed, after OData services are transported etc.

This job could be run On Demand or scheduled to run daily or weekly.

* **/UI2/EAM\_BUILD\_CACHE:** This job is used for building and clearing cache for SAP Menu to enhance performance and speed up loading Launchpad configuration and content thereby enhancing the performance by indexing them.

It is recommended that this job be run after transporting or implementing Fiori Launchpad content. This job should also be run after system upgrades or patch installations.

This job could be run On Demand or scheduled to run daily or weekly.

* **/UI2/PERS\_EXPIRED\_DELETE:-** This job deletes and cleans up expired personalization data, such as user preferences, tile layouts, etc., stored for Fiori users. This helps maintain the integrity and performance of user-specific settings in SAP Fiori. The job also helps optimize and improve system performance by deleting stale data, thereby improving user experience.

**SAP Note 2031444** provides more detailed information on this job

* **/IWFND/R\_METERING\_DELETE:-** This job aggregates metering data for the SAP Gateway and Fiori applications. It aggregates and summarizes OData service consumption, data analysis and monitoring user activity and system performance.

It is recommended to schedule this job to run daily

* **/IWFND/R\_METERING\_DELETE:-** This job is responsible for deleting obsolete metering data in the SAP Gateway system. Removing historical data logs frees up space in the metering table and prevents it from becoming excessively large. This process helps maintain optimal system performance.

Depending on usage, it is recommended that this job be scheduled to run daily or weekly.

* **/IWBEP/SUTIL\_CLEANUP:-** This job performs cleanup tasks for SAP Gateways utility layer (IWBEP), which supports the consumption of OData services. It is used to delete obsolete or temporary data that is associated with support tools and utilities. The removal of data such as logs, metadata caches, and temporary files also helps in SAP Gateway system performance optimization thus ensuring resources are utilized efficiently.

This job could be run On Demand or scheduled to run daily or weekly.

**Conclusion**

Each job is vital in maintaining the efficiency, performance, and consistency of SAP Fiori and UI5 environments, ensuring that applications run smoothly and data integrity is preserved.

**Summary**

Understanding and effectively managing background jobs in SAP Fiori is crucial for ensuring the system operates smoothly and efficiently, without compromising the user experience. Administrators must carefully plan the scheduling and monitoring of these jobs to align with the organization’s operational needs.