

Everything You Need to Know: Xelence's Job Services Engine



What is the Job Services Engine?

A batch job is a computer program or set of programs processed simultaneously. The sequence of commands is listed in a file and submitted for execution as a single unit, accomplishing a systematic business objective.

The job services engine in Xelence, Sagitec's low-code/no-code platform, is the piece of software that manages batch jobs in your application. For example, for pension agencies, posting interest to member accounts. You can complete jobs without requiring user intervention using data that already exists in the system or incoming data from a file. Users can also schedule jobs in advance to run at dedicated times. Configuring the job schedule and adding steps within a few clicks is all possible within Xelence.

Business Benefits of Job Services Engine



Optimum Performance

The Xelence job services engine executes the job in the background and can run multiple jobs simultaneously (parallel processing), providing users with efficiency and productivity.



Easy Configuration

It provides a user friendly interface to configure the job schedules and allows business logic to be integrated easily.



Greater Control

It provides reconfigurability when setting up and scheduling batch jobs.



Better Experience

It provides an intuitive interface that enables operational staff members to maintain and manage batch jobs.

Xelence Job Services Engine Features and Benefits

Feature	Benefit
Job Service Failover	Each job service registers itself as an agent. The agent is responsible for queuing the batch jobs per the schedule. The job service agent sends an “alive” signal every 70 seconds. If this signal fails to register, then other job services take up the agent’s role.
Job Processor	The job processor allows routine batch jobs that need to run at regular intervals from getting stuck behind a long-running batch job. For example, users like you can configure a security batch job for syncing security to run on a dedicated job processor without getting stuck behind a long-running batch job.
Cancellable Job	You can configure a batch job as a cancellable job. But you can’t configure all jobs as cancellable. For example, you cannot cancel a job processing an in-bound file in the middle and restart. As long as the batch can handle the cancellation and restart, you can mark it as a cancellable job. The feature helps cancel batch jobs that are running for too long.
Controller Jobs	Controller jobs decide whether you can execute a dependent job. You can configure more than one controller job for a dependent job. For example, a batch job that generates general ledger entries might depend on the successful execution of a job that posts service credit purchase payments.
Job Schedule	You can configure job schedules easily or change the schedule as required from Xelence itself as the “Step and Schedule” configurations are designed in XML layout.
Multi-Threaded Architecture	Users often need to code individual batch jobs to take advantage of thread parallel libraries to increase efficiency. With Sagitec’s job services engine, multi-threaded architecture is a configuration, and developers coding individual batch jobs need not worry about coding complex parallel threads.
Parallel Processing of Jobs	You can configure batch jobs to run across other job service engines having extra computing capacity. Parallel processing allows multiple jobs to run or the same job to run on various machines simultaneously.
Configurability	Multi-threaded architecture, parallel processing, process log, commit threshold, job schedule dependency, and job step dependency are all things you can configure for each job.
Job Types	Various job types like file, data, report, and correspondence can be configured and implemented.

About Sagitec

Sagitec Solutions, LLC is a low-code/no-code platform provider. Sagitec’s Xelence platform puts speed, simplicity, and evolution at the core of enterprises. Xelence allows citizen developers and IT professionals to quickly design, test, and deploy simple to complex enterprise-grade software applications. Over 30 complex mission-critical software applications run 24x7x365 with demonstrated ability to evolve and scale to incredibly high demands with the Xelence platform.

Accelerate excellence and learn more about Xelence at <https://www.sagitec.com/xelence>



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