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RULES WHEN USING JOB OR BATCH DEPENDENCIES

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GECS 3.50 and greater

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CATEGORY
Scheduling

Two very powerful features of GECS are the ability for jobs to be configured to repeat and the ability for jobs to run in a specific sequence using job or batch dependencies. To be successful in configuring jobs to repeat that also need to run in specific sequences, it is very important to follow a few rules.

1. Jobs cannot depend on jobs scheduled after them. Jobs can only depend on jobs with a Next Run Date/Time that's earlier or the same as their Next Run Date/Time. Setting up jobs so they depend on jobs scheduled after them will produce unpredictable and unreliable results.

2. Don't set jobs to repeat faster than it takes your job stream to run. For example, if your job(s) takes about 2 hours to run, do not set your job(s) to repeat every 1 hour when using job dependencies.

3. When using batch dependencies, if you save a job or batch where all requirements are met, that depends on a batch that does not exist or has not been scheduled or is scheduled for the future, the job or batch will run immediately.

4. Jobs can depend on jobs that repeat at the same frequency, (e.g. they are all daily jobs) or starting with version 3.50, jobs in a dependency chain can have different repeat frequencies.

5. When deciding whether a job can run, GECS determines:
   a. whether the jobs that this job depends on have run at least once
   b. that the most recent instance of the jobs this job depends on, scheduled since the last time this job ran and before 'now,' have run successfully based on the predecessor job parameters entered for the job dependency.

   If you indicate that job 2 depends on job 1 and you never create job 1, job 2 will not run, since 'the job this job depends on has never run'.

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EXAMPLE 1

If job 2 depends on job 1 and job 1 is scheduled every day at 7:00 AM and job 2 is scheduled every day at 7:00 AM, job 2 will run each day as soon as job 1 is successfully complete.

EXAMPLE 2

If job 2 depends on job 1 and job 1 is scheduled every Friday at 7:00 AM and job 2 is scheduled every day at 7:00 AM, after they've each run once, job 2 will run every day except Friday at 7:00 AM, without waiting for any dependent job.

EXAMPLE 3

If job 2 depends on job 1 and job 1 is scheduled every day at 7:00 AM and job 2 is scheduled every Monday at 7:00 AM, once each job has run once, job 2 will run every Monday after the Monday instance of job 1 is successfully complete.

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