

## WHAT'S NEW IN VERSION 4.70

The major changes added with GECS v4.70 are summarized below.

- Job Overrun 'Cushion' - An overrun percentage has been added at the job level. The job will only be marked as overrun if it overruns by this amount.
- Job's Initial Submission - Batches now keep a date/time field that represents the first time the batch is submitted.
- File Dependency Time - A time has been added to each job that indicates how recently the files modified time must fall before the file is considered modified (01:00:00 would mean the file must be modified in the last one hour).
- FTP Proxy Server Fields - Fields have been added in FTP Connections to hold info about the proxy servers required for FTP.
- Notification Lists - New tables have been added where Notification Lists and the entries in the list can be defined. Notification lists can then be used for notifying when events occur. The Notification List entries can be GECS users, email addresses or the names of other Notification Lists.
- Service Level Agreements - Batches can now be defined with SLA information indicating when the batch needs to be completed in order to satisfy the Service Level Agreement. When batches are initially submitted or rescheduled after completion a batch activity record is created for each batch instance which contains information about when the batch starts, finishes and whether the instance met it's SLA. New events are generated when the system thinks the SLA might be breached, is satisfied or is actually breached. The priority of the remaining jobs in the batch can be increased when the system thinks the SLA will be breached.
- SLA Monitor - Batches that are subject to service level agreements can be managed using the new SLA Monitor. The SLA Monitor lists the batch instances that match the filters and configuration for the particular view. Several default views are included and others can be added. The views define the batch instances to be displayed and the columns to be displayed.
- SQL Variables - SQL Variables can be added which define the SQL statement to be run. When the SQL statement is run, the value of the first column in the first row is used as a replacement for the variable. SQL variables are used much like substitution variables and custom variables and can be used in the same places, except that they are changed to the value returned by a SQL statement rather than to some fixed value.

- Comparison Dependency - A new type of dependency has been added where two values are compared and the job will only run if the comparison is TRUE. Substitution variables can be used in the values of the compare. For example you might define the comparison to '@MO = 1'. This would cause the job to only run in January. Any of the Substitution variables, GECS Variables or SQL Variables can be used in the comparison.
- Eliminate Unused Agents - Agents for Unixware(x86), FreeBSD(x86), Tru64(alpha), IRIX(mips) and Linux(ia64) are no longer supported by GECS and references to them have been removed.
- Job Level Pulse Rate - Traditionally every job is checked to see if it should be run on each pulse of the controller. Certain jobs, particularly those that depend on files, don't need to be checked on every pulse. Each job can be configured so they are checked less often than the pulse rate. The system might check jobs every 15 seconds, but a particular job could be configured to only be checked once a minute. This feature can improve system throughput when used effectively.
- FTP Sync Commands - Two new commands for SQL jobs have been added that can be used to sync a local directory with a remote directory or a remote directory with a local directory. SYNCLOCAL jobs transfer files from a remote server to a local drive. SYNCREMOTE jobs transfer files from a local drive to a remote server. The entire tree from the specified directory is synchronized. A sync type can be specified to sync all files, missing files, newer files or files with different lengths.
- Trigger Jobs - Jobs can now be defined that are launched with only a trigger of some sort, having no scheduled date/time. These jobs are immediately rescheduled after completion and are never considered late.
- Lengthen Agent Name - The GECS Agent names can now be 64 characters in length.
- Lengthen File Dependency Filespec - The length of the file dependency filespec field has been increased to 4000 characters.
- Print or Export Lists from Web Manager - The Web Manager can print most lists and views to PDF files and can export them to CSV files. A new table is used to store the Export Parameters, the information about the PDF or CSV files to be created. Export parameters can be defined and used only in Web Manager. The GECS Administrator has it's own mechanism to print or export the data shown in views.
- New Job Launching Logic - The internal job launching logic has been changed so that jobs are prequalified before they are checked for launching. This prevents jobs that depend on files or other triggers from impeding the launching process.
- Batches and Templates From WRK Files - Batches and Batch Details or Templates can now be loaded from WRK files similar to the way Jobs are loaded from WRK files. The new WRK file parameter AA:n can be included in the WRK file to indicate whether the WRK file should create a job (1), a batch (2) or a template (4).

- GECSBDUM Utility - The new GECSBDUM utility can be used to dump batch and batch detail records as WRK files.
- GECSXREF Utility - The new GECSXREF utility can be used to examine your data and check for invalid entries. For example the utility will identify jobs that reference calendars that don't exist. The program will display the errors and if the '-fixit' parameter is included the utility will attempt to fix the problem.
- GECSANOT Utility - The new GECSANOT utility can be used to add notification lists from a Comma Separated Value (CSV) file.
- GECSCNOT Utility - The new GECSCNOT utility can be used to create notification lists from the user groups defined in GECS.



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