

# CHANGES IN GECS 4.01 PACKAGES

GECS version 4.01 started shipping May 20<sup>th</sup>, 2009.

You can find the date of the last GECS package installed by looking in the file named PKGDATE.TXT located in your GECS program directory.

**The following lists major changes to this package. Back end code optimization and/or documentation changes are not always listed.**

## **Known Issues**

**When upgrading your GECS System Manager, Controller and Web Manager, you MUST upgrade ALL Agents as well.**

### **Changes in System Build: 4.01.3338 Administrator Build: 4.01.78**

The web client now allows you to edit controller information including the ability to pause and resume.

Additional changes were made to the web manager program dealing with communications.

When GECS sends an email with %STATPAGE%, it now always sends CRLF not just LF.

The 64 bit agent build number has been incremented.

### **Changes in System Build: 4.01.3303 Administrator Build: 4.01.78**

Changes were made to the web manager program. Improvements were made to increase the web client speed and how the web manager works when configured to use Active Directory.

Studio worksheets now allow users to add single jobs that already exists in GECS to a worksheet. There is a new prompt when trying to add a job to a worksheet where the job already exists in the GECS system.

Improved GECS Event messages for TCP.

### **Changes in System Build: 4.01.3159 Administrator Build: 4.01.76**

When Notes exist for a Batch or a Job, GECS no longer inadvertently trims the job notes.

A change was made to allow jobs with a “Waiting Activation” job status to be Activated (Job status set to “Pending”) by GECS via WRK file. In the past, GECS WRK files could not activate a job with a waiting activation job status.

### **Changes in System Build: 4.01.3131 Administrator Build: 4.01.76**

Changes were made to the way Unix agents handle job completions when jobs utilize the login as specified user option.

### **Changes in System Build: 4.01.3111 Administrator Build: 4.01.76**

GECS now ships a new 64-bit version of the Windows Agent. This Agent can launch 64-bit jobs. The 64-bit Windows agent is build 3102. Change your Agent desktop icon properties from gechsagt.exe to gechsagt64.exe to launch the 64-bit Agent program on the desktop. To run your Agent as a service, ASERVICE64 must be run from a command shell.

More detail is now included in GECS Event Messages dealing with TCP/IP communications errors.

Improvements have been made to the the scripted installation feature of GECS where you can now specify the location of the scripting INI file to use.

### **Changes in System Build: 4.01.2979 Administrator Build: 4.01.74**

Updates were made to the System Manager, Controller and Windows agent programs to better handle the way job launching works after an agent encounters communications issues.

The Controller no longer checks the status of agents or marks them as offline. Now only the System Manager marks agents off and online.

Changes were made to the way Agents update their internal list of running jobs.

### **Changes in System Build: 4.01.2959 Administrator Build: 4.01.72**

Added new email substitution variables %ALERTMMSG% and %MAILMMSG%.

Jobs terminated by user or terminated due to overrun now display the output that took place while the job was running.

Job notes created under the Batches folder (batch detail screen) are no longer inadvertently deleted when “removing scheduled jobs” or manually deleting pending batch jobs from the job queue.

## **Changes in System Build: 4.01.2955 Administrator Build: 4.01.70**

An update was made to allow agents to display both the operating system and processor of the version of the agent running. GECS System View will show as Solaris (sparc) or Linux (x86).

Improvements were made to the GECS-MIB for SNMP to include the definition of traps generated by GECS events.

A modification was made to the GECS license scheme.

## **Changes in System Build: 4.01.2951 Administrator Build: 4.01.70**

Reworked how GECS updates its list of components. It now acts in a more robust fashion.

Corrected issue dealing SNMP not reusing sockets.

On certain SQL (deadlocks, insufficient resources, and lock resources) GECS will retry the query.

## **Changes in System Build: 4.01.2857 Administrator Build: 4.01.70**

Job statistics now send in 'Job Complete' email.

Fixed issue where apostrophe (') were being added to job notes.

GECSBATS /n will submit batches now even if already submitted.

Fixed an issue dealing with jobs getting marked as failed when using the exclusive file dependency and an agent was restarted.

Made updates to the way GECS sends email.

The fields displayed in the %STATRPT% page have been made available individually.

Standard output is now saved when a job is terminated by user.

GECSISQL will now quit on error.

Offline/Online events are generated in more areas for all components.

Late job minutes are now respected in all situations.

Late start skip now suppresses Event 56 (Bad Return Code).

## **Changes in System Build: 4.01.2793 Administrator Build: 4.01.69**

A bug was fixed dealing with GECS sending email attachments.

The System Manager will no longer load jobs in WRK files from v4.0 where job statuses are on hold, running or complete.

A bug was fixed dealing with dependent batches that will not run if it finds a previous bad return code of a predecessor batch, even though the most current run of the predecessor was successful.

## **Changes in System Build: 4.01.2761 Administrator Build: 4.01.69**

Fixed an issue causing some jobs to throw different launch error messages.

Fixed issues with exclusive and sharable file dependencies.

Improvements have been made with changing directories and SO files. SO files should now only be placed in your Global ECS directory and deleted after they are done.

The late event will no longer be generated if the job is in the late status and has already been created.

## **Changes in System Build: 4.01.2740 Administrator Build: 4.01.069**

Added the GeneralDelay registry setting under the SYSMGR key. This setting should be increased if your Global ECS Controller is using up large amount of CPU. Increasing this setting also decreases overall throughput.

Utilities GECSC360/GECSC400 now appends the SYSTEM batch name to non batch jobs for the ACTIVATE field.

GECS now deals with large amounts of output without timing out.

Added messages to why this job cannot run like unable to find required file - or other reasons if they exist.

Added Output button in the Web Manager.

## **Changes in System Build: 4.01.2699 Administrator Build: 4.01.068**

Occasionally there was a chance of receiving an Overlapped I/O launch message when GECS has run a job. This has been corrected.

GECS was displaying certain TCP/IP errors in situations that were unnecessary . These errors have now been suppressed.

When a Job was rescheduled using validtimes, vacations, or calendars GECS will reschedule the job 500 times until it finds a correct Date/Time for the Job to next run. This setting has been increased to 5000.

Using 'Mark Complete once Started' now executes the command line correctly.

New settings for WRK File/ File Dependency sorting (FileSortMode). Reference manual for more information.

Restore/Convert utilities will now restore/convert audits faster.

Certificates now work on all platforms (including 64 bit platforms).

Archived jobs now trim correctly based on the number of days to keep.

GECSDUMP now captures all statistics on completed jobs.

Web MGR deals with sessions in a more responsive fashion.

Fixed bug with special schedules involving having a special schedule with the same DateTime as the Job's Next Run Time.

GECS CONV now appends the SYSTEM batch to the activate job field if it contains a job that did not have a batch name from earlier versions.

Fixed a bug in GECSBATS that causes the utility to require 6 parameters.

## **Changes in System Build: 4.01.2572 Administrator Build: 4.01.067**

Fixed certificate issues on all 64bit agents.

A scenario was discovered in which off-line agents could cause the SYS MGR to stop updating agents This has since been fixed and should also address the issue with jobs becoming 'stuck' in the running state.

NT Console Jobs now capture return codes.

GECSBATS now inserts all jobs in pending state instead of on hold and switching each job to pending one at a time.

GECS PURG, GECS CLEA, GECS DEL, and GECS LDEL have been reworked for better performance.

GECS CNUM now works on batches.

Reimplemented a list lock on all agents to prevent jobs getting stuck running in certain situations.

Archive Jobs will now correctly be trimmed based off of the system setting (days of archive jobs to keep).

ODBC Reconnect to MS SQL / ORACLE now happens in a cleaner fashion.

New Icon View Dependency Lock feature which locks highlighted dependencies.

New Registry setting 'OnlyDoSingleEvent' can now be added under the SYS MGR section. When set to True GECS will not process Events 54 and 56 if a custom event is defined.

### **Changes in System Build: 4.01.2411 Administrator Build: 4.01.066**

Reworked the Controller to not wait for a reply back when sending a job to an agent. If the packet was received System Manager will then handle retrieving the job from the agent.

### **Changes in System Build: 4.01.2379 Administrator Build: 4.01.065**

TCP/IP has been reworked. When connections are established with agents, they now remain open. This allows TCP/IP to deal with all non critical errors to ensure data delivery.

GECS Administrator has been redesigned to prevent the application from entering a timeout state when inside list views.

Updates were made to the mechanism where agents launch jobs. A fix was also made to capturing output in Windows agents to resolve an issue where a job could become in a stuck running status.

Changes were made to the amount of times GECS looks into the future using GECS calendars to reschedule a job.

Batch dependency logic was modified where the batch dependency checks only the newest job when a batch job is rerun.

GECS Studio Worksheets now convert properly from GECS v3.60.

Job Notes are no longer missing after doing a bulk update.

GECS now checks the maximum and minimum good return codes, on jobs, when deciding when to activate a job on failure and/or generate custom events on job success or job failure.

### **Changes in System Build: 4.01.2004 Administrator Build: 4.01.062**

Web MGR Buttons now work with IE 6.

A Job is no longer flagged as late via the late jobs thread while the job is running.

Cases existed when marking jobs as on-hold during a batch run and re-running those same jobs later would

cause the re-run jobs to reschedule.

Utilities gecsbate and gecsbati now export/import the new NT event type and Max cpu usage columns.

Utility gecsbats now correctly submits NT event type and Max cpu usage columns when no data is entered.

### **Changes in System Build: 4.01.1960 Administrator Build: 4.01.062**

Fixed bug causing the agent's environment to become corrupted after the first run of a job.

When using the Web Manager views there was a chance that a large number of SQL connections would be left open. This has been fixed.

Removed schedule comparison from dependency check.

Descriptions now added to Windows Events generated by GECS.

### **Changes in System Build: 4.01.1950 Administrator Build: 4.01.062**

Active Directory authentication changed to reference USERNAME instead of DISPLAYNAME. **Changes need to be made if you are using DC=Domain for your Domain Name in Workstation setup. Change DC=Domain to simply your Domain Name.**

Made performance improvements to the Controller logic. Allows more throughput in situations where jobs have dependencies.

Emails no longer display NO OUTPUT when there is no output for a job.

XCOPY and FIND jobs can now be run using the NT CONSOLE command line type to capture their output.

Reasons have now been added to gecsadum.

Fixed issues when logging on as a specified user where the environment would become corrupted after running a single job.

F3 & F4 keys in job views will now display all job types.

Conversion GECSC360/GECSC400 programs can now convert more than 60 batch variables.

Conversion GECSC360/GECSC400 programs can now convert jobs with no begin date/time.

Web Manager now displays this job's schedule properly.

## **Changes in System Build: 4.01.1883 Administrator Build: 4.01.059**

There was an issue when using the @AGENT, @CMDLINE, and @SERVER substitution variables that could GPF the agent. This has been fixed.

When jobs in a batch are set to retry on failure, and one or more of the jobs fail, the batch did not reschedule properly. This has been fixed.

Audits are created now when a Batch is extracted.

All fields (including NOTES and OUTPUT) are now copied when using the Copy Scheduled Job feature in Batch Manager.

GECS now allows apostrophes for user names.

## **Changes in July 10<sup>th</sup>, 2009 Package**

### **Changes in System Build: 4.01. Administrator Build: 4.01.**

When sending large amounts of email at once (ex 200 jobs going late) the System Manager will open up many concurrent SQL connections and will hang or GPF. This issue has been fixed.

Addressed an issue with licensing that sometimes caused the system to suspect the license was invalid.

If a job is rerun in a batch, upon reschedule GECS was using the wrong job in the batch for the reschedule. This is now corrected.

## **Changes in System Build: 4.01.1839 Administrator Build: 4.01.051**

Special schedule lookups now display properly when using the GECS Administrator.

The Web Manager Batch Extract now displays batches listed by next run time, not submitted time.

Fixed a bug with GECSC360. Keystrokes fields 3 & 4 now get converted.

Corrected an issue with Windows Agent that sometimes added a single space to keystuffing.

## **Changes in System Build: 4.01.1664 Administrator Build: 4.01.051**

An Audit is now created upon batch submission.

The default setting for purging audits is now 365 days.

The All Audits view will now show Audits of every type.

Settings Stuffkeysviastdin and jobnotesaskeys now function properly.

## **Changes in System Build: 4.01.1617 Administrator Build: 4.01.050**

First version no changes to report.