

Software Release Notice

System: AGS SGS

Release: AGS SGS New Non-Blocking RCI Patch

Date: March 18, 2002

Modification Description:

This is an Upgrade for the Svalbard and Poker Flats Ground Stations.

The following changes are planned for the Svalbard and Poker Flats Ground Stations software. The following modifications apply to release AGS SGS 4.5 and have been completed since the AGS SGS 4.5 release:

1. If the SCC needs to block on a send, instead of shutting down the socket, the SCC will print a message to the terminal window, check it's receive socket and continue.
2. The Top Level Version Display will change from AGS SGS 4.5 to AGS SGS 4.5.1

Files Affected:

The files that were developed and/or utilized as part of this patch are listed in Attachment 1: New Non-Blocking RCI Patch FILES.

Hardware Requirements:

N/A

Validation Procedures:

New Non-Blocking RCI

There should be no immediately noticeable affect of using this patch. If a schedule transfer anomaly should occur, the logs should not appear as if the SCC was sleeping.

Known Bugs or Limitations:

Some open DRs may not be resolved in this release due to equipment constraints.

Installation Procedure:

To install this patch, first backup the current executables and the etc directory. Copy the etc directory to etc.old. It is not anticipated that this patch would corrupt any files in the etc directory, but that slight possibility does exist. Create the etc.old directory snapshot so that we could recover if necessary. In the bin directory being patched, copy rci to rci.old, and Nasa to Nasa.old. Copy the file rci and Nasa into this directory. Copy the file rci to rci.new and Nasa to Nasa.new to identify it for possible switching back and forth. Make sure that rci, rci.new, Nasa, Nasa.new, Nasa.old and rci.old have executable permission.

Create a script called swnnbpatch, which will copy rci.new to rci, and Nasa.new to Nasa.

Create a script called swnnbunpatch, which will copy rci.old to rci, and Nasa.old to Nasa.

Activation Procedure:

Patch activation procedure:

(1) Select option "Exit" from the "Session" menu. This action will close the SCC graphical user interface (GUI) and stop all SCC processes. Processes are stopped after "Stopping rci" and "Removing Stale Message Queues" messages are displayed. Hit "enter" to display the SCC command prompt, "ags-11m >".

(2) Type "swnnbpatch" to activate the patch. Type "Start" to start the SCC processes. The SCC GUI main window will show the version it was showing prior to the patch.

Restore Procedure:

Patch removal restore procedure :

(1) Select option "Exit" from the "Session" menu. This action will close the SCC graphical user interface (GUI) and stop all SCC processes. Processes are stopped after "Stopping rci", and "Removing Stale Message Queues" messages are displayed. Hit "enter" to display the SCC command prompt, "ags-11m >".

(2) Type "swnnbunpatch" to remove the patch. Type "Start" to start the SCC processes. The SCC GUI main window will remain unchanged.

Documentation Affected:

N/A

Comments:

N/A

Approval:

The software modifications described in this release notice has been validated and accepted.

_____	_____
NASA AGS SGS Project Manager	Date

SOFTWARE RELEASED:

The software modifications described in this release notice have been completed and released to ground station operations.

_____	_____
System Manager	Date

_____	_____
NASA Program Monitor	Date

Attachment 1
New Non-Blocking RCI Patch Files

The bin Directory:

rci
Nasa

The etc Directory:

The etc/hpib directory:

N/A

The etc/config directory:

N/A

The etc/defaults directory:

N/A