

ACIS Limitpager FSDS Control Document

Name of the Software Suite: limitpager.pl

Location: /export/acis-flight/acis/bin on each of 4 computers:

acis60-v
aciscdp-v
acisway
Ishmael

Applicable files: /export/acis-flight/UTILITIES/GetNodeName.pl
/export/acis-flight/UTILITIES/ReadLimitsFile.pl
/export/acis-flight/UTILITIES/engplot_limits

Also on each of the 4 Real Time monitoring computers.

Version Control System: Github

Description:

limitpager.pl is a cron job run every 5 minutes, on each of the 4 ACIS Real Time monitoring computers. Limitpager looks at the latest, decommed Real Time contact telemetry and compares the latest values read with the limits stored in engplot_limits. If a Yellow Low or Yellow High limit is violated, and email is sent to the ACIS Ops team. If a Red Low or Red High limit is violated, email and text alerts are sent to the ACIS Ops team and members of the ACIS MIT team.

The limits are stored in /export/acis-flight/UTILITIES/engplot_limits. When a new limit has gone through its own approval process, this file is edited to incorporate the approved limit update. Limitpager.pl is not modified when a limit is changed.

Each of the four machines have identical copies of limitpager.pl, GetNodeName.pl and engplot_limits. GetNodeName.pl identifies which of the 4 computers upon which this instance of limitpager is running. That information is used only in the subject line of the alert message should one be sent. This program would only be modified if the name of an ACIS Real Time computer changed.

Change Process:

1. Requestor develops, tests, and documents change following internal processes.
2. A Github PR is created and ACIS Ops members are invited to review and approve the change.
3. With ACIS Ops approval, requestor creates a JIRA ticket in the Flight Support Data Systems project. The FSDS Change Request Form Template will be used to list the information.
4. Requestor notifies FD of the change request by sending email to ftdirs@cfa.harvard.edu and providing a ticket number.
5. If the change is approved, requestor or responsible party installs to the flight configured environment and tests (as appropriate) the installed change.
6. Github PR is merged.