PAM files for SAM LGS observing runs

PAM = Predictive Avoidance Message

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Introduction
What are PAM files?

Preparing for an observing run

1. Prepare the target lists (in specific format)

2. Send in request

Uploading PAM files for SAM LGS observing runs

Start VNC Viewer on soaraom2 soaraom2.ctio.noao.edu:3 (IP 139.229.15.32:3)

> *vncviewer soaraom2.ctio.noao.edu:3*
> PW: vnc4slch

You will be logged in as "slch"

Open a terminal and go to the directory where PAM files are stored:

> *cd /home/PAM*

Create a directory for your observing run, e.g. 20110314

> *mkdir 20110314*

From your machine, copy your PAM files to /home/PAM/20110314 using scp:

> *scp PAM*.txt aom@soaraom2.ctio.noao.edu:/home/PAM/20110314*

PW: aom_opr

If the computer name is not recognized, use the IP number instead.

On soaraom2 VNC window:

1. Starting the SLCH GUI

Open a terminal and go to the SLCH directory

cd /home/SLCH
./SLCH.csh

NOTE TO FRANCISCO: IT WOULD BE NICE TO HAVE AN ICON IN THE RIGHT BOTTOM CORNER OF THE VNC TO START THE SLCH APPLICATION.

FOR NOW: TWO WINDOWS WILL APPEAR, ONE WITH THE MAIN APPLICATION AND ONE WITH THE 'ENV-Main' APPLICATION WINDOW.
MINIMIZE THE 'ENV-Main' WINDOW.

The SLCH GUI is divided into three parts:
- The top part displays the status of the system.
- In the middle part of the GUI the system is initialized, and PAM files are loaded.
- The bottom part of the GUI shows the information on the uploaded PAM files, and the authorized target.

At the top of the SLCH GUI there are two indicators:
Application STATE and *Communication STATE*

When starting up, before initializing the SLCH system, these indicators will be in:
Application STATE: STANDBY
Communication STATE: OFFLINE

To initialize the SLCH watchdog, press *"INIT"* in the SLCH GUI.

The indicators will change to:
Application STATE: RUNNING
Communication STATE: IDLE

2. Uploading PAM files

NOTE TO FRANCISCO: IT WOULD BE NICE IF THE DIRECTORY AUTOMATICALLY IS SET TO /home/PAM

Select PAM files, with pull down menu.

Note: This will only select the PAM files, it will not upload the files!

You can load various PAM files at the same time, but in general it is a good idea to load only one PAM file per night, to avoid confusion. Exceptions are e.g. the engineering nights, when two files, one with RA & Dec and one with El & Az are uploaded.

To load the PAM files, press *"LOAD"*

The SLCH memory is cleared, before the new PAM files are uploaded.

3. Which PAM files are loaded?

In the lower part of the SLCH GUI the information on PAM file memory, with a list of uploaded PAM files.

4. Clearing memory / un-selecting PAM files

To clear the memory of the SLCH watchdog:
Press: "CLEAR"

If you are in the process of uploading PAM files, and you accidently clicked the wrong file, you can "un-select" the file using the pull-down menu (right click) and then "delete element".

5. Shutting down the SLCH GUI

To shutdown the SLCH GUI in a clean way, press the following button in order indicated:
1. *"OFF LINE"*
2. *"SHUTDOWN"*

Trouble shooting

Corrupted PAM file?
System hangs
Too many versions of the SLCH LabView process running.