# SCA Application Requirements – June 6, 2014

**Requirements**

1. The application shall be able to manage at least 3 absolute time tables.
2. The application shall use an ASCII text-based table file format.
3. The application shall support the following commands:
   1. A command to start an absolute time table
   2. A command to stop an absolute time table
   3. A command to get information on active tables (information will be written to a file).
4. When processing tables, each command will be sent out to the data system when the command time tag matches the UTC Time.
   1. Resolution of the time tag will be in seconds
5. When processing tables, the application shall skip any times that have already passed unless the force flag is true and the force flag timeout has not expired (see #12).
6. When processing tables, commands with the same time tag shall be legal and will be sent to the data system in the same second.
7. The application shall keep counters for successfully executed ATS commands and missed or unsuccessfully executed ATS commands and report these counters in housekeeping telemetry
8. The application shall report the last unsuccessfully executed ATS command sequence number and name of the file containing the last unsuccessfully executed ATS command in housekeeping telemetry.

**Assumptions**

* The application may assume that the times in the table files are in order
* The application may assume that the times and commands in the table files are correct (The application will perform no verification on the file).