# Send a command packet containing the CTR to the target

* The packet has the generic structure described in the LFR SRS, Appendix A
* The command packet size is 248 bytes as maximum
* The frequency of the CTR transmission is 1 Hz
* The CTR is distributed thanks to the Accept Time Update command (service type 9, subtype 129)
* the target receives the command packet and writes the CTR on the standard output

Object: test the ability of the target to receive a SPW command and to process it

## spwplugin creation

The address pointer in the read/write commands shall be NULL.

spwplugin will be merged with the rmapplugin at the end of the development.

spwplugin simply writes the ccsds packet on the appropriate gresb channel, after having checked the availability of the spacewire link

spwplugin receives the CCSDS packets coming from the gresb bridge and store them in an appropriate buffer

## spwtimedistributionplugin

Interface:

* one button start
* one label to display errors

# Target reply to the command packet

* the target sends an acknowledge packet to the sender with the current CTR value
* the sender displays the content of the reply

Object: test the ability of the target to emit a SPW packet

# Write the CTR in a dedicated place in the target memory upon reception of a SPW time code

* The command packet containing the Central Reference Time is transmitted 300ms prior to the time code itself
* upon reception of a SPW time code an interruption is raised in the target
* the CTR buffer is updated with the value received in the command code 300msec before the time code itself

Object: test the SPW time code reception ability of the target

# Reset the fine time buffer upon reception of a SPW time code