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SGSLR automation and the Computer and Software subsystem design

The NASA Space Geodesy Satellite Laser Ranging (SGSLR) system design plans for fully automated SLR operations. Automating the systems will require a phased approach as NASA develops, builds and deploys the first three SGSLR systems for the next generation NASA Network. The SGSLR Computer and Software (C&S) subsystem will control, command, or monitor all aspects of the system during every mode of operation, and will be capable of post processing and delivering all science and housekeeping data to the NASA Integrated Geodetic Site Operations Center (IGSOC). The C&S subsystem will provide SGSLR the capability for local and remote operations, as well as the capability to operate 24 hours a day, 7 days a week with no human intervention (except for periodic routine maintenance and occasional repairs). This poster will describe the computer and software subsystem design and interface to the SGSLR subsystems providing the framework for the final phase of SGSLR automation development.