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**Introduction:** The new Space Geodesy Satellite Ranging (SGSLR) computer architecture and software will allow full automation to be realized after the lessons learned during development of the NGSLR prototype. A more streamlined approach will be shown using industry standard I/O devices, more powerful off the shelf computers and an open source operating system with a real-time application interface. SGSLR will utilize most of the NGSLR software. This new approach will consolidate systems, provide a broader expanse of hardware solutions and reduce computer related costs and maintenance.