

StellarXplorers Sample Scenarios

In preparation for the StellarXplorers Challenge, we are providing several examples of a typical scenarios that the team will receive during the competition. These scenario will run on the basic STK program and does not require the Educational License. However, we do encourage all the teams to request and install the license as soon as possible.

For each scenario there are three files:

- 1) A .pdf file (STLX Sample Scenario #x.pdf) – this file contains the “Mission Briefing” which is a description of the task that the team will be required to complete. It also describes what data must be sent to the StellarXplorers Program Office at the end of the competition period. And it also explains how the team’s solution would be scored by the StellarXplorers Competition Staff.
- 2) A STK Visual Data File ((STLX_Sample_Scenario_x_STLX04-0xxx.vdf) – this file is opened using the STK program and contains the starting conditions for team. Typically, it would contain technical data such as the scenario evaluation period, ground targets, and a satellite orbit which the team will modify to best meet the objectives of the scenario.
- 3) An MS Excel document (STLX Sample Scenario #1 Solution.xls) that the team would use to submit their solution to the StellarXplorers Competition Staff at the end of the competition period.

If you have any questions on these scenarios and any other aspects of the competition, feel free to contact us at StellarXplorer@afa.org.