

# Simcenter 3D Space Systems Thermal

Simcenter 3D Space Systems Thermal is the vertical application that provides a comprehensive set of tools to perform orbital thermal analyses in the Simcenter 3D environment. Simcenter 3D Space Systems Thermal helps resolve engineering challenges early in the design process and is a valuable tool for predicting and understanding thermal physics for space-bound, orbiting and interplanetary vehicles.

## Module benefits

Predict thermal performance for orbiting vehicles accurately and quickly

Increase collaboration and team productivity with a thermal analysis solution that is easily integrated with your design and engineering process

Maximize process efficiency with a highly automated solution that requires no additional input files and carries out the analysis in a single pass

## Key features

Model orbital heating for all planets of the solar system

Transient view factor recalculations with articulating geometries such as sun-tracking solar panels and directional antennas

Multilayer shell formulation for modeling multilayer insulation, composite panels and thermal protection systems

