

# MISSION PLANNING TOOL

Complete space mission lifecycle in a single interface



MPT is a modular space mission planning software framework designed to plan, simulate and track mission success from inception to execution with user-specified levels of detail and plug and play capability with external tools. It is designed to aid mission planners by coordinating daily activities through a single user interface.

MPT's client/server architecture combines a Windows Presentation Foundation thick client (for enhanced visualization) with a Linux based, containerized set of services and external tools on the server side for enhanced performance, scalability and extensibility. MPT is designed to scale from a single client/mission on a laptop, to multiple clients supporting multiple missions using a cluster of servers.

MPT's hierarchical framework supports a user-defined level of complexity at the Mission, Plan and Event level:

**Mission:** The highest level of planning. A mission uses common hardware models (resources), objectives and other A6p104 (m) (O) t T T 10 1 Tf-0.008 Tc 0.008 Tw 0 -2 Td(P) -11.3 and spatial views tied together through a unified interface

- Concept to disposal mission planning managed from a single tool for full-lifecycle mission support



The MPT timeline manager display interface (above) is one of a number of specialized reports applicable to specific circumstances with highly formatted data.



