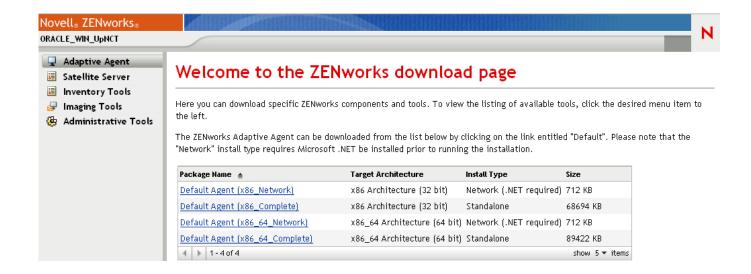# Satellite List Toolkit

NET)nOrbit Determination Tool Kit (.NET)STK Toolkit The STK is similar to a number of tools with a similar purpose. STK is designed to be a toolkit of systems modeling tools for the digital mission engineer. We offer two products built with STK: Orbit Determination Tool Kit (ODTK) to determine desired orbits, Systems Tool Kit (STK) to conduct analysis of orbital trajectories and to perform engineering analysis of spacecraft systems. If an ODTK module is installed on a STK product, ODTK will be the only software the user will need. The STK toolkit is available free on GitHub. Mission analysis The overall goal of the Systems Tool Kit (STK) is to provide the digital mission engineer with the ability to analyze complex interrelationships between spacecraft systems, onboard software, and the mission. With STK, the user can analyze the trajectories of a spacecraft in various orbit and mission modes. STK can also simulate the effects of arbitrary changes to a spacecraft's configuration, including changes to sensor parameters, payloads, and on-board software. Spacecraft engineering The Systems Tool Kit (STK) is used to create detailed spacecraft models and also to perform engineering analysis of spacecraft systems, design of control and sensor systems, and analysis of alternative trajectory modes and new payloads. STK provides the user with the ability to: modify a spacecraft model to include new hardware and software add sensors, payloads, and other hardware to a spacecraft model analyze the design of the spacecraft's on-board software analyze the design of onboard control systems perform detailed flight analysis perform various orbit determination functions Modeling The STK's modeling functionality provides a general purpose, object oriented, domain specific modeling language with several built-in modules.

Modeling a spacecraft system is accomplished by specifying the spacecraft model with a metaclass, the abstractions, and the policies governing the relationships between those abstractions. Sub-modules may be added to an existing spacecraft model. Modules may also be created to define additional spacecraft configurations. Analysis The analysis functions of STK provide a generic suite of analysis algorithms that may be applied to any mission architecture. The analysis algorithms process a spacecraft model and return results in a simple form, such as flight duration, consumed propellant, or the center of mass (COM) location 82157476af

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