



CSSI team (L to R): Vallado, Finkleman, Alfano, & Kelso

CSSI's Mission:

AGI's Center for Space Standards and Innovation (CSSI) functions as a centralized source of research, standards, data, and innovative technical solutions for the national security and space communities.

WHY CSSI?

Current problems with space standards are that they lack consistency, consolidation, and accessibility. The space community needs widely accepted and openly developed standards, as well as easy access to standard data in order to ensure interoperability and facilitate innovation. CSSI is leading an initiative to address these problems by establishing an Internet-based data dissemination service so that standard data and documentation are readily available for aerospace, defense, and intelligence professionals to perform their missions.

Who Leads CSSI?

Dr. Salvatore Alfano, Dr. David Finkleman, Dr. T.S. Kelso, and David Vallado comprise the CSSI team. Backed by AGI's renowned astrodynamics experts, this group promotes space-related best practices through data, tools, and consultation in areas such as: high-precision operations; space asset protection strategy; autonomous operations; space mission design and analysis; advanced navigation applications; conjunction and launch-window analysis techniques; and optimal orbit determination.

How Does It Work?

Data dissemination services will soon be offered from CSSI's CelesTrak Web site. CelesTrak, operated by Dr. T.S. Kelso since 1985, has established a credible reputation worldwide for providing standard data and educational materials to the space community. Data will initially include two-line element sets, earth orientation parameters, solar weather data, geomagnetic indices, precision orbit ephemerides, and associated models and documentation. The next advancement will include automated analysis products, such as covariance-based conjunction prediction reports.

For the latest information about the Center for Space Standards CSSI, phone 1.719.573.2600, e-mail cssi@stk.com, or visit www.stk.com/cssi.