

SOCET SET v5.6 release enhancements

SOCET SET v5.6 includes approximately 300 enhancements and fixes, as well as all incremental patches since SOCET SET v5.5 was released on June 19, 2009. The following list outlines key improvements.

Support for Esri ArcGIS 10 when using the SOCET for ArcGIS module

- Connect to ArcGIS 10 geodatabases (personal, file and ArcSDE)
- Improved connection times and graphic performance
- Enhanced support for geodatabase subtypes
- Context dependent auto-attribution based on geometry type

Full testing and support for Windows 7

Enhancements and bug fixes integrated as patches in SOCET SET v5.5 following the June 2009 release

- DPPDB-Like* and CIB-Like** generation from commercial imagery including NextView sensors (WorldView-1 and GeoEye-1) as well as WorldView-2
- JPEG2000 performance enhancements for generating orthophotos and mosaics
- NGATE strategy updates for small format, SAR imagery and imagery that has low contrast such as deserts and glaciers; performance improvements for bare-earth DEM generation; optimal stereo model selection logic and logic to allow up to 256 stereo pairs per point
- Added support for LAS 1.1 and 1.2 file formats
- The interface for the GAIT quality assurance tool is provided in the SOCET SET v5.6 export release and includes support for GAIT v17
- New ClearFlite Missed Approach, WAAS Phase 10 and ICAO Area 2ABC surfaces

*SOCET SET Digital Point Positioning Data Base (DPPDB) format production module [which uses MIL-PRF-89034, March 1999 format specifications].

**SOCET SET Controlled Image Base® (CIB) format production module [which uses MIL-PRF-89041, May 15, 1999, format specifications].

Support for numerous sensor models and the geoids, provided as patches to SOCET SET v5.5

Sensors and geoids rolled into SOCET SET v5.6 include:

ALOS sensor model – Launched January 2006, www.jaxa.jp/projects/sat/alos/index_e.html

The ALOS satellite has multiple sensors including a stereo optical sensor (PRISM) with three telescopes for same-pass stereo, a multispectral sensor (AVNIR 2) and an L-band synthetic aperture radar sensor (PULSAR).

RapidEye sensor model – Launched August 2008, www.rapideye.de

RapidEye is a constellation of five sun-synchronous satellites providing multispectral imagery in five bands with a ground sample distance of 6.5 meters.

ASTER sensor model – Launched December 1999, asterweb.jpl.nasa.gov

ASTER collects imagery in 14 bands, from the visible to the thermal infrared with a ground sample distance of up to 15 meters. Its sensor design provides same-pass stereo using multiple telescopes.

KOMPSAT-2 sensor model – Launched July 2006, www.spot.com

Kompsat-2 has a panchromatic sensor capable of collecting imagery at a one-meter ground sample distance. It also has a four-band multispectral sensor (red, green, blue and near-infrared).

WorldView-2 sensor model support – Launched October 2009, www.digitalglobe.com

WorldView-2 has a panchromatic sensor capable of collecting imagery in stereo with a ground sample distance of 0.46 m. It also has an eight-band multispectral sensor.

GeoEye-1 sensor model support – Launched September 2008, www.geoeye.com

GeoEye-1 has a panchromatic sensor capable of collecting imagery in stereo with a ground sample distance of 0.41 meters. It also has a five-band multispectral sensor.

Community Sensor Model support for standard plug-in sensor models, www.gwg.nga.mil/csmwg_documents.php

The Community Sensor Model Working Group is a U.S. government program that provides a specification for the plug-in architecture.

Geopositioning Metadata Model support for NTM sensors

JTW9.2.8.4 support for NTM sensors

EGM2008 support from the National Geospatial-Intelligence Agency, earth-info.nga.mil/GandG/wgs84/gravitymod/egm2008

The earth gravitation model 2008 is a 2.5 minute grid of undulations with respect to the WGS84 ellipsoid.

Geoid09 support from the National Geodetic Survey, www.ngs.noaa.gov/GEOID/GEOID09

“GEOID09 is a refined hybrid model of the geoid in the United States and other territories.”

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