

Visualization Architecture for Sensor Technology (VAST)

VAST provides a fast and efficient solution for visualization of terrain, feature and image information while maintaining geospatial accuracy.

Benefits

VAST provides an integrated “Sensor-to-Visualization” process for time-critical operations such as intelligence operations, mission planning and rehearsal, targeting initiatives, and operational command and control.

VAST allows many large images to be viewed in the context of the underlying three-dimensional terrain and features. This enables new visual methods for multi-image photogrammetry, multi source data fusion, image exploitation, and enhanced data immersion.

Interactive 3D visualization of real-time images and video is supported. This suggests future applications for multi source air vehicle displays such as mm wave, SAR and EO.

VAST allows distributed network services to control moving objects enabling visualization of real-time events in support of applications such as CC4ISR and Persistent-ISR.

FEATURES

Capable of presenting 30+ sensor types, tactical to NTM, from multiple simultaneous sources (many gigabytes of data) in 2D or 3D displays on the desktop or over networks

3D data editing using photogrammetric methods

Real-time Multi-source Data Fusion—Sensor projectors utilize rigorous sensor models with geo-registration allowing for immediate and precise presentation and fusion of any data source

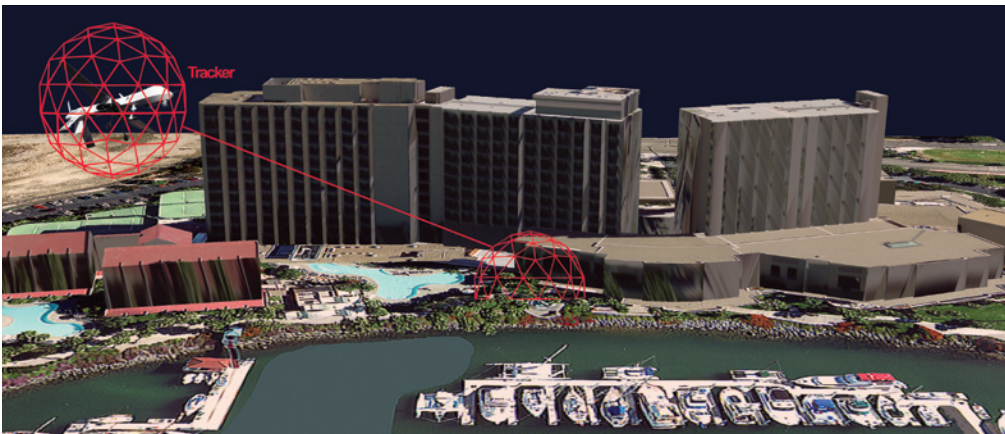
Enhanced Product Generation—True Orthophoto, Mosaic, Overlays

Enhanced data understanding

Rapid and affordable

A scalable solution, laptop to supercomputer, server to workstation

Windows XP, Linux



Technology Readiness Level (TRL) 5.5

FOR MORE INFORMATION CONTACT:

J. Robert Hayes
Director, Business Development
BAE SYSTEMS Information Systems Sector
10920 Technology Place
San Diego, CA 92127
Telephone (858) 592-5709
Fax (858) 675-3851
Email bob.hayes2@baesystems.com
www.ms.na.baesystems.com

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