Security & Surveillance Toolkit (SSTK™)

Command and Control Technologies
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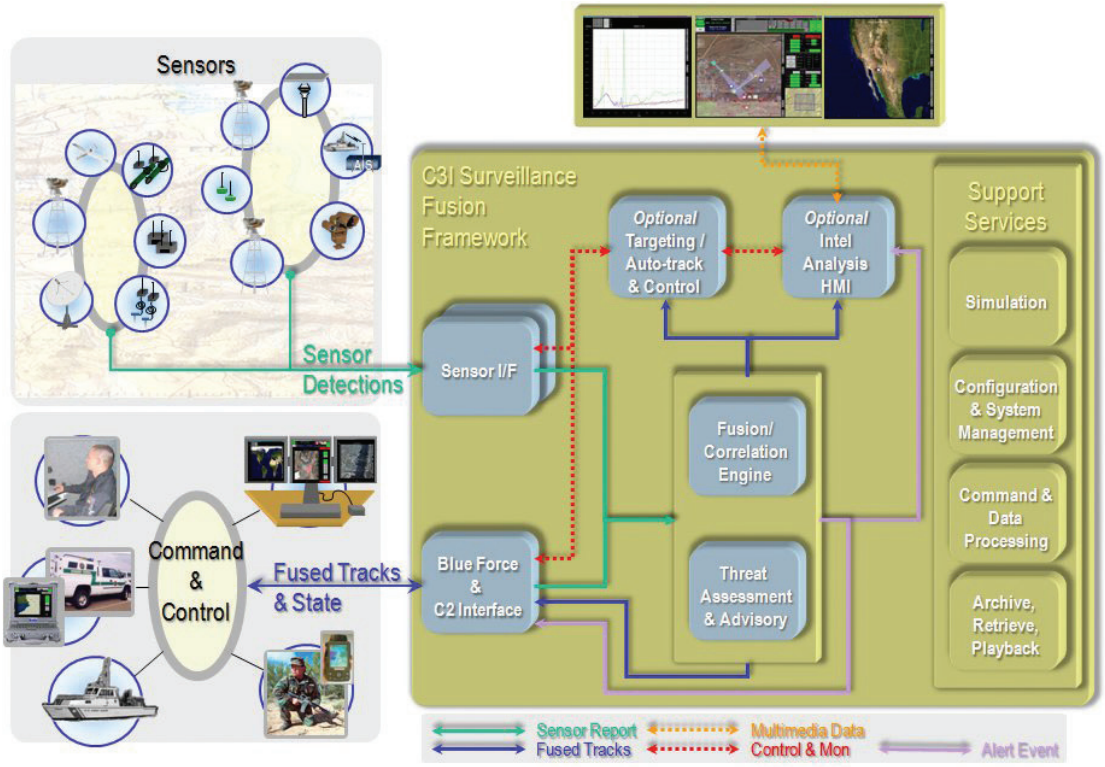
Security and Surveillance Toolkit

The Security and Surveillance Toolkit software is an off-the-shelf framework designed to integrate distributed operations for real-time shared awareness and reliable surveillance control. COTS middleware integrates sensors, algorithms/ fusion, and common components for tracking, targeting, and interdiction within a real time Common Operating Picture. Open and reusable services support interoperation and architecture extension for evolving tactical surveillance requirements.

SSTK™ Framework



SSTK™ Architecture Overview

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Multi-Sensor Fusion:

Since no signal sensor provides the capability to find, fix, track, target engage and assess in all weather conditions, C3ISTK provides multiple hypothesis multisensory fusion that:

- **Provides multiple looks at each target**
- **Takes advantage of the strengths of each sensor type to increase target identification and location accuracy**
- **Deals with conflicting data**
- **Produces interim results that can be revised as more data becomes available**

Threat Advisory Expert System:

- Evaluates kinematics behavior of fused tracks against tactical threat rules. (e.g. crosses border, circumvents check point, vectors to critical assets, etc.)
- Automatically prioritizes threats and alerts operators of threat condition
- Provides blue force agent with continuous tasking and intercept vector

Targeting/Auto Tracker:

- Controls auto-tracking of cameras/ imagers
- Evaluates camera/ imager availability
- Queues imagers to threats based on priority and proximity
- Keeps imagers on target
- Handles hand-off between manual camera ops and auto- tracking

Common Operating Picture:

- Integrates all available information concerning tracks, sensors, and blue force into a series of user configurable views
- Unlimited targets for visual tracking
- Stand- alone or embedded graphical widget
- User definable target tracking icons including support for Mil- Std- 2525B
- Open GIS standard overlays with the GIS Canvas
- Dynamic labels and annotations
- Dynamic panning and zoom
- Configurable look and feel

Real-Time Multi-Sensor Acquisition Support:

- Radar
- Unattended Ground Sensors (USG)
- Cameras and Imagers
- Marine Automatic Identification Systems (AIS) support
- Blue Force GPS
- Contact for others

Core Support Features:

- Data recording, reduction, analysis, and playback
- Integrated simulation environment for test and training
- Customization tools: graphical builder, map server, development environment, sensor templates