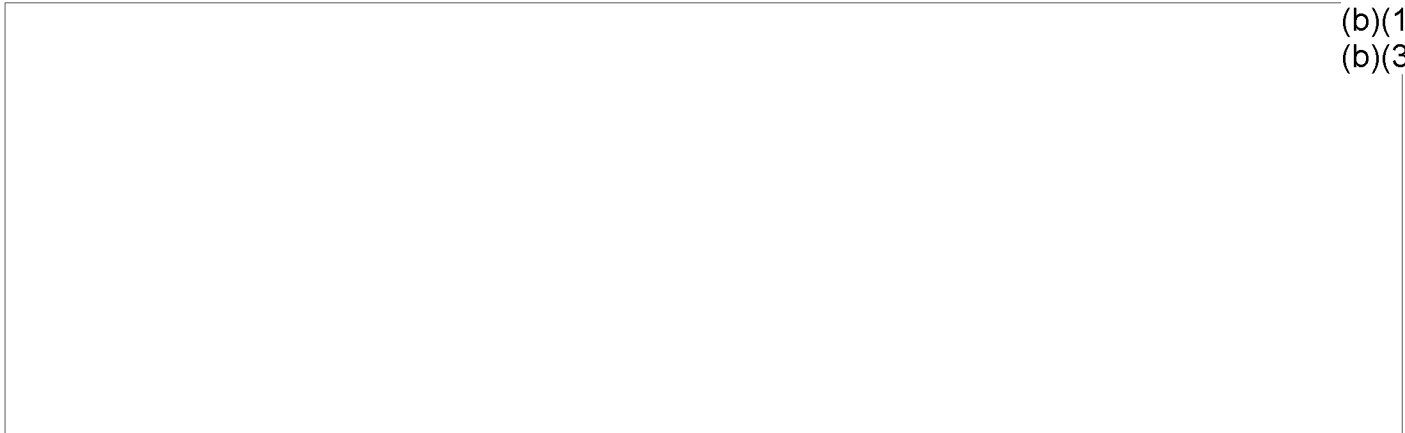


~~SECRET//TALENT KEYHOLE//REL TO USA, FVEY~~

(U) Sentient Program

(U) Mission

~~(U//FOUO)~~ Sentient is an on-going Research and Development (R&D) program, which is managed and operates out of the National Reconnaissance Office (NRO). The program architecture was developed to demonstrate advanced technologies and techniques to revolutionize the current Tasking, Collection, Processing, Exploitation, and Dissemination (TCPED) cycle across the Intelligence Community (IC). The Sentient methodology represents a fully integrated intelligence approach consisting of three fundamentals: problem-centric intelligence; multi-INT end-to-end; and trusted machine automation.



(b)(1)
(b)(3)

(U) Features

~~(S//REL TO USA, FVEY)~~ As Intelligence requirements continue to expand and manpower resources decrease the need for automated tasking and collection is more critical than ever. The R&D Sentient program helps alleviate such constraints by providing the intelligence community with an automated tipping and cueing system. Sentient's architecture delivers activity based intelligence to customers via alerts, drives automated collection based off feasibility, and provides a visual interface for analyst to interact with the program and understand the automated decisions. In addition, Sentient integrates various tactical and national sensors to support tactical operations and [redacted] Sentient is comprised of the following components:

~~(S//REL TO USA, FVEY)~~ **Problem Decomposition** - The process of discovering and documenting the Essential Elements of Information (EEI), signatures and observables, possible collector applicability, [redacted] and targeting strategies ect. to develop Sentient mission threads (mission threads defined below).

(b)(1)
(b)(3)

(U) **Sensemaking** - Develop analytics to automatically fuse multi-INT "big data" in context to understand current activity, predict new activity, and discovery unknown activity.

~~(S//REL TO USA, FVEY)~~ **Collection Orchestration** - Explore, develop, demonstrate and transition orchestrated collection and mission management technologies to enable predictive, responsive and optimized collection of intelligence

CL BY: [redacted]
DECL ON: 25XI, 20670112
DRV FM: NRO INCG 1.0, 13 Feb 2012

(b)(3)

~~SECRET//TALENT KEYHOLE//REL TO USA, FVEY~~

~~SECRET//TALENT KEYHOLE//REL TO USA, FVEY~~

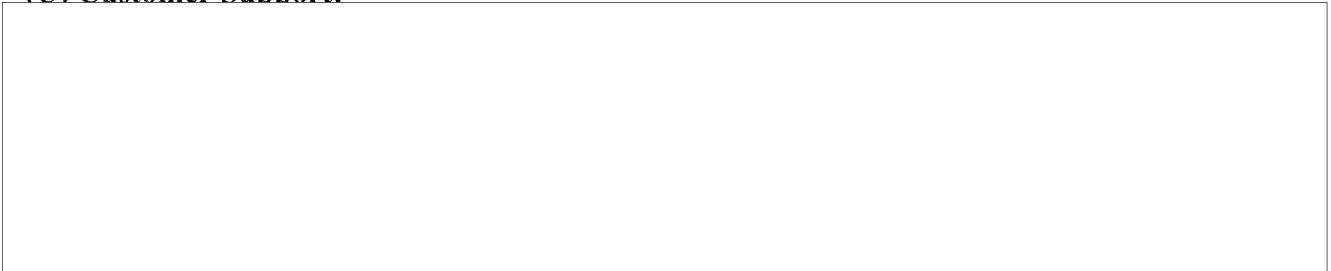
(U) Informatics & Processing - Apply nontraditional methods to fuse multi-INT object data for [redacted] entity resolution, geolocation and tracking.

(b)(3)



(U) Space Protection - In partnership with NRO Enterprise, DoD and IC Space Community, prototype and transition capabilities for space protection, mission assurance, and architecture resilience

(U) Customer Support:

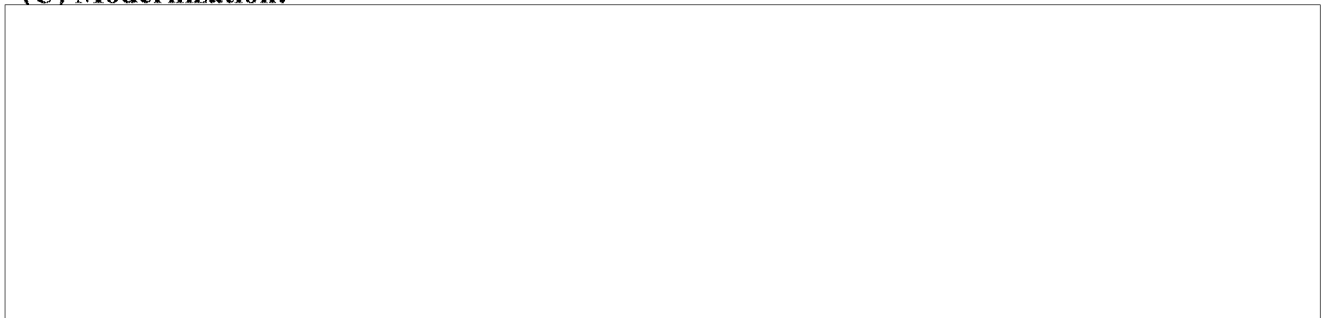


(b)(1)
(b)(3)

~~(U//FOUO)~~ **Analyst Training** - In order to ensure our customers are able to leverage Sentient's capabilities, our training team offers online videos or hands-on training, upon request. Training consists of guidance on the mission thread development process, how-to create a Sentient account, techniques on how-to monitor and receive ABI alerts, and how-to access collected imagery.

(U) Program Presentations - Sentient program overviews, describing our system architecture, are provided upon request. Presentations can be made available via IC-Connect, teleconference, video teleconference, or in-person (if in proximity to the NRO).

(U) Modernization:



(b)(1)
(b)(3)

~~(U//FOUO)~~ **Point of Contact:** NRO/AS&T/[redacted] Chantilly, VA.



(b)(3)

~~SECRET//TALENT KEYHOLE//REL TO USA, FVEY~~