

By [redacted] (b)(3)

(S//TK//REL)

# Sentient Initiative

(U) Imagine a collection environment that is integrated with all other intelligence collection systems, but through automation, operates at the [redacted] on the complexity of information. Given an analyst's direction, it prioritizes taskings to the different collectors and disseminates the processed data. The [redacted] Office is developing such a capability—the Sentient Initiative. Sentient is not a monolithic system, but a fusion of leading-edge Multi-INT technologies into an automated, end-to-end, integrated capability. It matures technologies and prototypes and integrates them into other intelligence platforms for state-of-the-art collection.

(U) Future intelligence collection will require architectures that work at the [redacted] on the complexity of information. [redacted] Complexity of information refers to the volume and variety of information buried in noisy data. Finding low signal-to-noise sources requires automation to handle the data, locate sources quickly, and integrate the information across various collectors, to raise it above the background noise.

[redacted]

[redacted]

Sentient is an effort to fuse Multi-INT capabilities into an end-to-end integrated system

(U//FOUO) Advanced big-data analytics are at the heart of Sentient's evolving capabilities. Sentient is developing world-class

abilities to discover patterns, correlate events, understand the intentions of actors in complex scenarios, and learn the early indicators and warnings (I&W) for potential hostile actions. All of this is buried within a sea of data. [redacted]

(U) Sentient will allow analysts to focus on reasoning and situational understanding instead of searching through data. By incorporating diverse situations, technologies, and collection strategies, Sentient will substantially improve the intelligence value of the NRO constellation.

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(U) See the c Trailblazer on SENTIENT