

[redacted]

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**From:** [redacted]  
**Sent:** Tuesday, June 29, 2021 9:31 AM  
**To:** [redacted]  
**Subject:** RE: Sentient R&D support to UAPTF --- ~~TOP SECRET//SI//TK//RSEN/IMCON/NOFORN~~  
**Attachments:** [redacted]

(b)(3)

Classification: ~~TOP SECRET//SI//TK//RSEN/IMCON/NOFORN~~

[redacted]

Our most recent

[redacted]

(b)(3)

“Veni, vidi, scripsi.”



(b)(3)

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**From:** [redacted]  
**Sent:** Tuesday, June 29, 2021 8:51 AM  
**To:** [redacted]  
**Subject:** FW: Sentient R&D support to UAPTF --- ~~SECRET//NOFORN~~

(b)(3)

Classification: ~~SECRET//NOFORN~~



[redacted]

[redacted] can you support, with a refresher?

(b)(3)

v/r

[redacted]

**From:** [redacted]  
**Sent:** Tuesday, June 29, 2021 8:45 AM  
**To:** [redacted]

(b)(3)

**Subject:** RE: Sentient R&D support to UAPTF

Classification: ~~SECRET//NOFORN~~

[redacted]

Hello [redacted]

(b)(3)

I know we have briefly discussed this program before. Do you have a product brief/trifold that we can look at as a refresher?

S/f

[redacted]

**From:** [redacted]  
**Sent:** Tuesday, June 29, 2021 8:41 AM  
**To:** [redacted]

(b)(3)

**Subject:** Sentient R&D support to UAPTF ~~SECRET//NOFORN~~

Classification: ~~SECRET//NOFORN~~

[redacted]

Good morning, [redacted]

(b)(3)

NRO's Sentient R&D as a UAP Model to look for UAP [redacted] in imagery, but we need an external customer to ask for it to be turned on.

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

And you are our primary customer.

So would you mind assisting us.

v/r

(b)(3)

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Classification: ~~SECRET//NOFORN~~

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Classification: ~~SECRET//NOFORN~~

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Classification: ~~SECRET//NOFORN~~

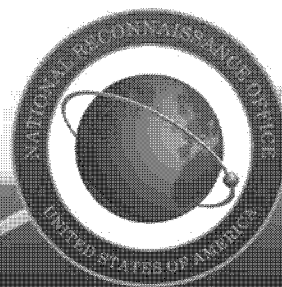
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Classification: ~~TOP SECRET//SI//TK//RSEN/IMCON/NOFORN~~

~~TOP SECRET//SI//TK//IMCON//RSEN//NOFORN~~

# NATIONAL RECONNAISSANCE OFFICE

## (U) SENTIENT

6 Nov 2019



SUPRA ET ULTRA

~~TOP SECRET//SI//TK//IMCON//RSEN//NOFORN~~

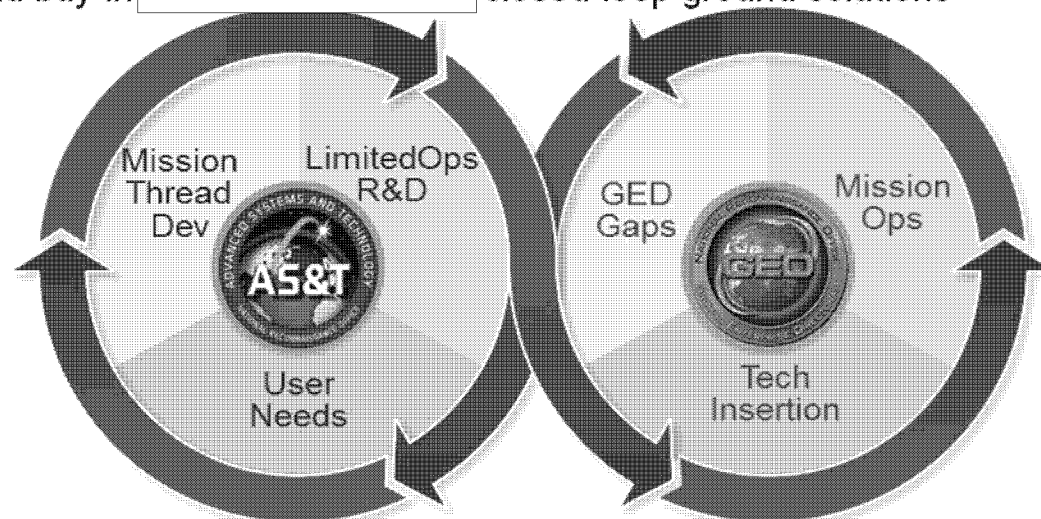
(b)(3)

~~TOP SECRET//SI//TK//IMCON/REL TO USA, FVEY~~**(U) SENTIENT****(U) DESCRIPTION**

(U//~~FOUO~~) SENTIENT is an AS&T research and development framework that enhances the GED operational framework. Sentient emulates key elements of the NRO's existing and future ground architecture. The framework is anchored around a problem-centric overhead system tasking and collection process that employs   to support an adaptive closed-loop cycle.

**(U//~~FOUO~~) ENTERPRISE IMPROVEMENTS**

- Faster identification, characterization, and behavior prediction of targets and activities
- Data-driven decisions for future ground architecture
- Improved tasking, collection, processing, exploiting and dissemination efficiency through correlation of large and disparate data sets
- Perspective and buy-in  closed-loop ground solutions

Graphic is U//~~FOUO~~~~TOP SECRET//SI//TK//IMCON/REL TO USA, FVEY~~

DISRUPTIVE RESEARCH

(b)(3)

(b)(3)

~~TOP SECRET//SI//TK//REL TO USA, FVEY~~

# (U) SENTIENT – GEOINT Related Activities

## • Programs:

- (U) [ ] – Adaptable [ ] for sea land and air
- ~~(S//REL)~~ [ ] fusion
- (U) S2A GEOINT fusion improvements
- ~~(S//TK//REL)~~ [ ] based imaging
- (U) MOVINT SAR [ ]
- (U) 3D Processing

(b)(3)

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

(b)(3)

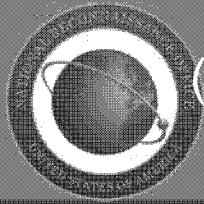
## ~~(S//REL)~~ GEOINT Based Experiments:

- Patterns of Life (POL)
- Segmentation prior to [ ]
- Size threshold evaluation
- Shadow integration for [ ]
- [ ] tipping
- [ ]

## ~~(TS//TK//REL)~~ GEOINT Mission threads:

- [ ] tipped
- Air Domain Awareness
- Maritime Domain Awareness
- [ ] Activity
- Missile Activity
- WMD
- UAV
- [ ]
- [ ]

(b)(1)  
(b)(3)~~TOP SECRET//SI//TK//REL TO USA, FVEY~~

~~TOP SECRET//SI//TK//REL TO USA, FVEY~~

# (U) SENTIENT – SIGINT Related Activities

## • Programs:

- (U) Multi-INT Missions (MIM) – Purposeful  Multi-INT Collection (b)(3)
- ~~(S//TK//REL)~~  (b)(1)  
(b)(3)
- (U) Real Time Mission Assessment (RTMA) –  accomplishment
- (U) Dharma – Historical SIGINT Bonusing
- (U) Slice – Track Generation using SIGINT Pre-D
- ~~(TS//SI//REL)~~  Support to  Precision Geolocation (b)(1)  
(b)(3)

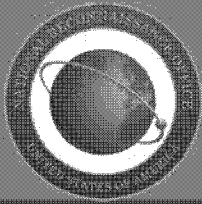
### ~~(S//REL)~~ SIGINT Based Experiments:

- Duration and Periodicity Testing
- Link Limit, Priority, and Resource Handling
- Offline  Testing
- Converged Collection
- Thread OpEval
- Non-Contiguous Collection
- Non-Contiguous Collection with
- incorrectly Placed Feed
- Frequency Scan Collection

### ~~(TS//TK//REL)~~ SIGINT Mission threads:

~~TOP SECRET//SI//TK//REL TO USA, FVEY~~

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(U) SENTIENT

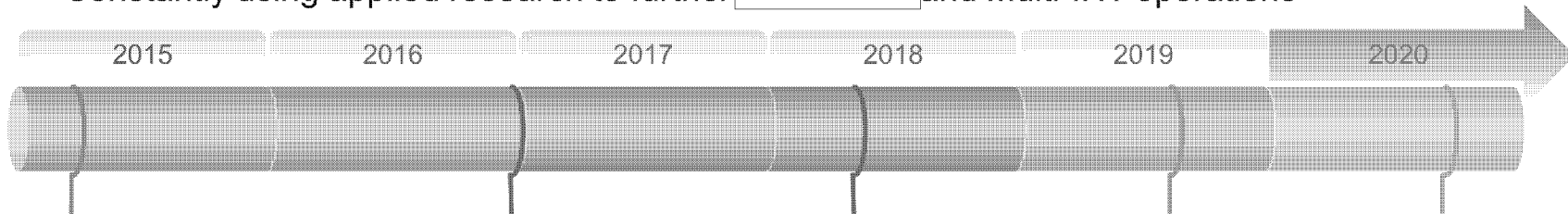
**(U//~~FOUO~~) COLLABORATION / TRANSITION PARTNER**

- Current collaboration from: AS&T, GED, SAO, [REDACTED] MOD, MID, MOD [REDACTED]  
[REDACTED]
- Provides GED with tech solutions to help meet the [REDACTED] vision

(b)(3)

**(S//REL) ROADMAP / MILESTONES**

- Constantly using applied research to further [REDACTED] and Multi-INT operations

(b)(1)  
(b)(3)(b)(1)  
(b)(3)**(U) HOW TO CONTACT:**

- Director: [REDACTED]
- Deputy Director: [REDACTED]

(b)(3)

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