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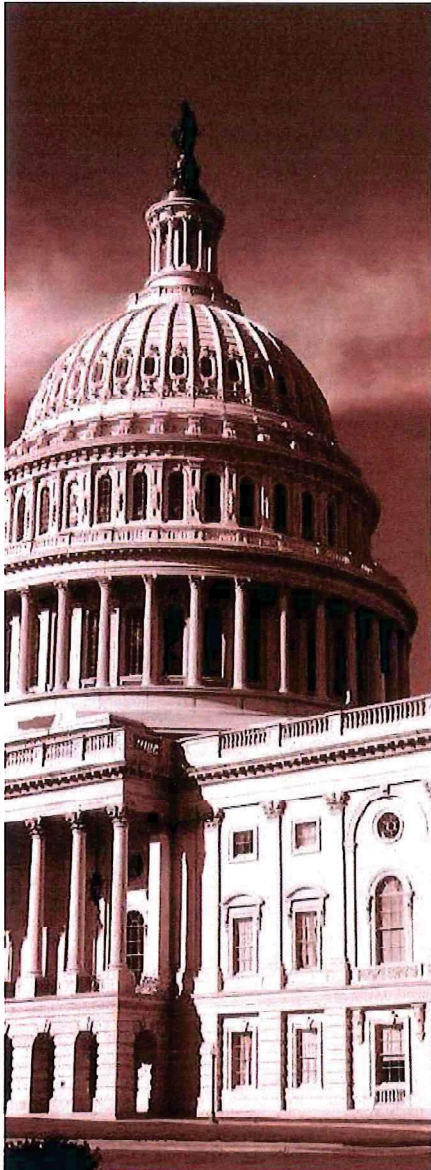
Report No. DODIG-2020-051



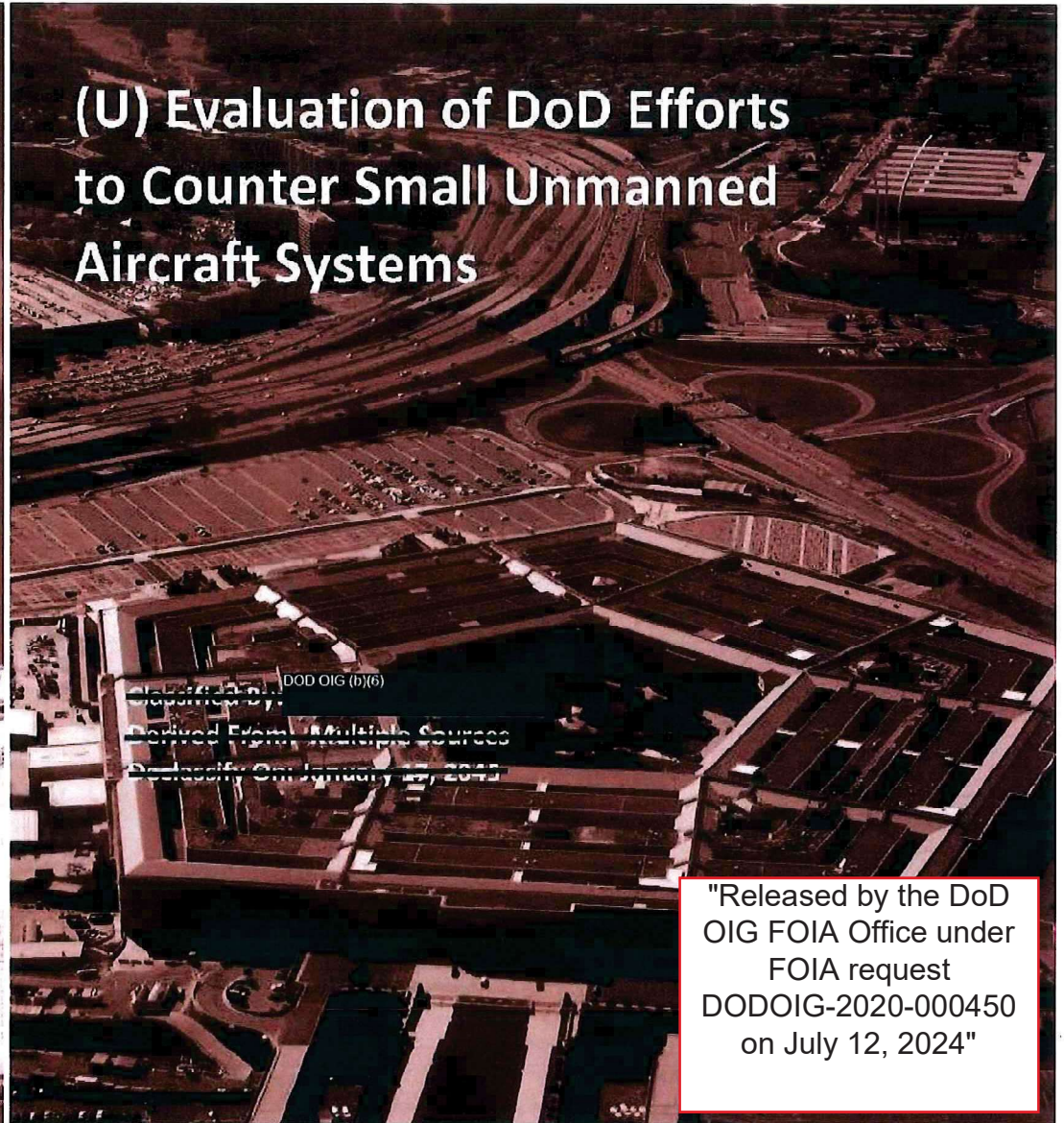
# INSPECTOR GENERAL

*U.S. Department of Defense*

JANUARY 22, 2020



## (U) Evaluation of DoD Efforts to Counter Small Unmanned Aircraft Systems



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DOD OIG (b)(6)  
Derived From Multiple Sources  
Declassify On: January 12, 2045

"Released by the DoD  
OIG FOIA Office under  
FOIA request  
DODOIG-2020-000450  
on July 12, 2024"

INTEGRITY ★ INDEPENDENCE ★ EXCELLENCE

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## Results in Brief

### *(U) Evaluation of DoD Efforts to Counter Small Unmanned Aircraft Systems*

January 22, 2020

#### **(U) Objective**

(U) The objective of this evaluation was to determine whether the counter small unmanned aircraft system (C-UAS) Senior Integration Group (C-SIG) coordinated and integrated the Military Services' and other DoD Components' efforts to meet evolving C-UAS needs.

#### **(U) Background**

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g / STRATCOM (b)(1)1.4a

[REDACTED]

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

#### **(U) Finding**

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

#### **(U) Finding (cont'd)**

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

#### **(U) Recommendation**

(U) We recommend that the Secretary of Defense designate an executive agent or other lead organization with the authority to direct all DoD Components in the development and fielding of counter-small unmanned aircraft systems.

#### **(U) Management Actions**

(U//FOUO) During our evaluation, the Secretary of Defense issued a memorandum that immediately designated the Secretary of the Army as the DoD Executive Agent for DoD C-UAS efforts. The memorandum also designated the USD(A&S) as the Office of the Secretary of Defense Principal Staff Assistant responsible for oversight of the Executive Agent.

(U//FOUO) The actions taken by the Secretary of Defense addressed the recommendation; therefore, the recommendation is closed.

**(U) Recommendations Table**

Management	Recommendations Unresolved	Recommendations Resolved	Recommendations Closed
(U) Secretary of Defense	None	1	1

(U) NOTE: The following categories are used to describe agency management's comments to individual recommendations:

- **(U) Unresolved** – Management has not agreed to implement the recommendation or has not proposed actions that will address the recommendation.
- **(U) Resolved** – Management agreed to implement the recommendation or has proposed actions that will address the underlying finding that generated the recommendation.
- **(U) Closed** – OIG verified that the agreed upon corrective actions were implemented.

~~SECRET//NOFORN~~



INSPECTOR GENERAL  
DEPARTMENT OF DEFENSE  
4800 MARK CENTER DRIVE  
ALEXANDRIA, VIRGINIA 22350-1500

January 22, 2020

**(U) MEMORANDUM FOR SECRETARY OF DEFENSE**

**(U) SUBJECT: Evaluation of DoD Efforts to Counter-Small Unmanned Aircraft Systems  
(Report No. DODIG-2020-051)**

(U) This final report provides the results of the DoD Office of Inspector General's evaluation. We conducted this evaluation from June 2019 through January 2020 in accordance with the "Quality Standards for Inspections and Evaluations," published in January 2012 by the Council of the Inspectors General on Integrity and Efficiency. We considered management's comments on a discussion draft copy of this report when preparing this final report.

(U) This report contains one recommendation that we consider closed due to management actions taken. Therefore, no management comments are required.

(U) We appreciate the cooperation and assistance received during the evaluation. If you have any questions, please contact DOD OIG (b)(6) at DOD OIG (b)(6) (DSN DOD OIG (b)(6)).

  
Michael J. Roark  
Deputy Inspector General  
for Evaluations

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## (U) Introduction

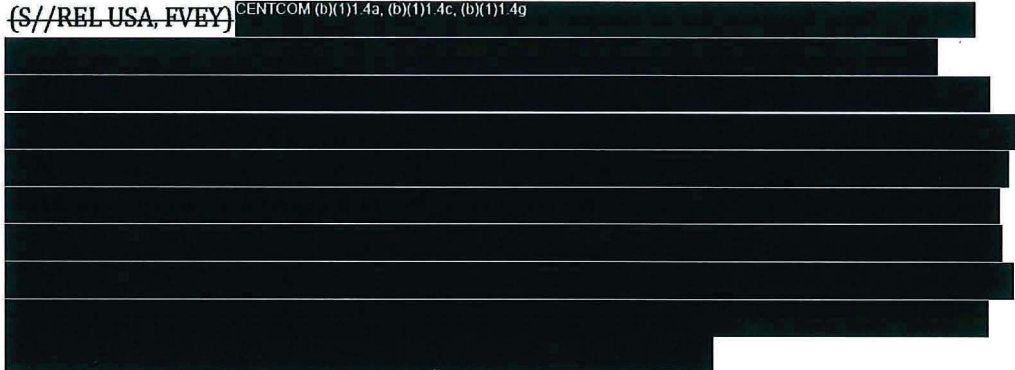
### (U) Objective

(U) The objective of this evaluation was to determine whether the counter-small unmanned aircraft systems (C-UAS) Senior Integration Group (C-SIG) coordinated and integrated the Military Services' and other DoD Components' efforts to meet evolving C-UAS needs.<sup>1</sup>


### (U) Background

(U) The technology of unmanned aircraft systems (UAS) has advanced and proliferated exponentially over the past decade. Specifically, UAS reconnaissance and attack capabilities have matured to the point where the UAS capability of both state and non-state actors present a credible threat to U.S. military personnel, equipment, and installations.

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g



(S//NF) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g



- <sup>1</sup> (U) According to Secretary of Defense memorandum, "Implementation of Counter-Unmanned Aircraft Systems Initiative," January 27, 2017, small UAS are UAS that are typically commercially available and weigh under 55 pounds.
- <sup>2</sup> (U) Indirect fire refers to fires that travel on a ballistic trajectory, such as a missile. Direct fire relies on a direct line of sight, such as a rifle.
- <sup>3</sup> (U) CENTCOM (b)(1)1.7e
- <sup>4</sup> (U) Information paper, "Department of Defense Lead Organization for Countering Small Unmanned Aerial Systems," December 7, 2016.
- <sup>5</sup> (U) Overflight is the flight of a manned or unmanned aircraft over a particular area.

~~(S//NF)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[REDACTED]

~~(S//REL USA, FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[REDACTED]

~~(S//NF)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g / STRATCOM (b)(1)1.4a  
[REDACTED]

**~~(S//REL USA, FVEY)~~ DoD Established the C-UAS Senior Steering Group in 2017**

~~(S//REL USA, FVEY)~~ On January 27, 2017, the Secretary of Defense established the C-UAS Senior Steering Group. Senior representatives from the Under Secretary of Defense for Policy; Chairman of the Joint Chiefs of Staff; and the Under Secretary for Acquisition, Technology, and Logistics co-chaired this Senior Steering Group.

<sup>6</sup> (U) According to the Chairman of the Joint Chiefs of Staff Instruction 3170.01I, "Joint Capabilities Integration and Development System," January 23, 2015, a JUON is a capability requirement that impacts an ongoing operation and is inherently joint in nature. If left unfulfilled, JUONs result in a capability gap that puts U.S. lives and mission success at risk.

<sup>7</sup> ~~(S//REL FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[REDACTED]

<sup>8</sup> (U) A JEON is an urgent need that is inherently joint and affects an anticipated or pending operation. If left unfulfilled, JEONs result in a capability gap that puts U.S. lives and mission success at risk. Assets vital to national security are President-designated property that the theft or sabotage of would seriously jeopardize the fulfillment of a national defense mission and create imminent threat of death or serious harm. Examples include nuclear materials, strategic operational assets, and special access programs.

<sup>9</sup> (U) JEON ST-008 "Protection of Assets Vital to National Security in Countering Small Unmanned Aircraft Systems," June 17, 2016.



~~(S//REL USA, FVEY)~~ The Senior Steering Group's mission was to focus efforts on UAS weighing 55 pounds or less and oversee the integration of these efforts with the Government-wide C-UAS effort. The C-UAS Senior Steering Group was responsible for:

- (U) reviewing C-UAS implementation progress;
- (U) establishing an implementation process, timeline, and mechanism for monitoring and reporting progress;
- (U) reporting progress to the Secretary of Defense;
- (U) making recommendations to the Secretary of Defense, as necessary, concerning additional measures for adjusting timelines of measures being implemented; and
- (U) discontinuing implementation of actions the C-UAS Senior Steering Group determined were no longer appropriate.

(U) In addition to establishing the C-UAS Senior Steering Group, the January 27, 2017, Secretary of Defense memorandum directed three deliverables:

- (U) develop and submit recommendations to the Secretary of Defense for additional measures, beyond those provided in DoD Policy Memorandum 16-003, to improve the DoD C-UAS posture;
- (U) update the Secretary of Defense and other senior DoD leaders periodically on progress via e-mail; and
- (U) submit a semi-annual report to the Secretary of Defense on the status of each action.<sup>10</sup>

(U) Additionally, this same January 27, 2017 Secretary of Defense memorandum directed the C-UAS Senior Steering Group to convene and continue to meet until the Secretary of Defense determined that sufficient and appropriate action was taken to implement the actions directed in Policy Memorandum 16-003 (and follow-on guidance) to improve the DoD C-UAS posture. The memorandum estimated that the C-UAS Senior Steering Group would be disestablished on or after September 30, 2018.

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<sup>10</sup> ~~(S//REL USA, FVEY)~~ Secretary of Defense Memorandum, "Implementation of the Counter-Unmanned Aircraft Systems Initiative," January 27, 2017, and Deputy Secretary of Defense Policy Memorandum 16-003, "Interim Guidance For Countering Unmanned Aircraft," August 18, 2016, provided initial guidance for countering unmanned aircraft threats to DoD installations, vessels, aircraft, and convoys in the United States.

(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

<sup>11</sup>(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

<sup>12</sup> (U) According to the DoD Dictionary of Military and Associated Terms, "Base defense is the local military measures, both normal and emergency, required to nullify or reduce the effectiveness of enemy attacks on, or sabotage of, a base to ensure the maximum capacity of its facilities is available to U.S. forces." A Base Defense Operations Center is a command and control facility established by the base commander to serve as the focal point for base security and defense.



***(U//~~FOUO~~) Acting Secretary of Defense Directed Under Secretary of Defense for Acquisition and Sustainment to Synchronize DoD C-UAS Efforts in February 2019***

(S//REL USA, FVEY)

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

(U//~~FOUO~~) The February 2019 Acting Secretary of Defense Memorandum stated that the C-UAS Senior Steering Group had accomplished its objectives and directed the USD(A&S) to lead the synchronization of DoD C-UAS efforts and provide an implementation plan back to the Secretary of Defense within 30 days.<sup>14</sup> On March 18, 2019, the USD(A&S) provided the Acting Secretary of Defense a proposed implementation plan and charter to establish the C-SIG. On March 23, 2019, the Acting Secretary of Defense approved the implementation plan and directed the USD(A&S) to establish a C-SIG using the approved implementation plan and charter. The establishment of the C-SIG simultaneously disestablished the C-UAS Senior Steering Group. According to the C-SIG implementation plan, the stated purpose of the C-SIG is to provide a DoD-wide forum to lead and facilitate an agile and rapid response to countering UAS. The C-SIG responsibilities include:

- (U) ensuring that all efforts across the DoD are synchronized, streamlined, and tightly integrated to recognize, respond to, and mitigate the risk of UAS;
- (U) adjudicating issues concerning the fulfillment of C-UAS needs;

<sup>13</sup> (U) Joint Staff Action Memo, "Synchronizing Counter-Small Unmanned Aircraft System Efforts," February 5, 2019.

<sup>14</sup> (U//~~FOUO~~) Secretary of Defense Memorandum, "Synchronizing Counter-Small Unmanned Aircraft System Efforts," February 15, 2019.

- (U) ensuring reporting mechanisms are effectively communicating warfighter needs to the acquisition communities and providing timely feedback on the performance of fielded solutions; and
- (U) assessing the actions taken by the DoD Components in countering UAS and implementing any changes necessary to expeditiously satisfy urgent needs.



**(U) Finding**

~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

[REDACTED]

~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

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~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

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~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

~~(S//REL USA, FVEY)~~

CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

<sup>15</sup> (U//FOUO) A UAS incident is an event or occurrence of one or more UAS flying over or adjacent to DoD missions, installations, facilities, ships, convoys, or other DoD assets.

<sup>16</sup> (U) Section 1301, title 10, United States Code, "Protection of certain facilities and assets from unmanned aircraft,"(2017).



(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[Redacted]

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[Redacted]

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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[Redacted]. See Appendix B for a description of the Military Services and USSOCOM C-UAS roadmaps.

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(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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[Redacted]  
[Redacted]

<sup>17</sup> (U) USSOCOM Information paper, "Update on Current DoD Counter-UAS Way Ahead to SECDEF and USSOCOM Counter-UAS Activities as of 13 Dec 18."

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

~~(S//REL USA, FVEY)~~

~~(S//REL USA, FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

(U//~~FOUO~~) CENTCOM (b)(1)1.7c

~~(S//REL USA, FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g



(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

- (S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

- (S//NF) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g / STRATCOM (b)(1)1.4a

- (S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g

***(U) The Current UAS Threat Is Similar to Previous Emerging Capabilities in Response to New Threats***

(U//FOUO) CENTCOM (b)(1)1.7e

. Therefore, the Secretary of Defense should appoint an executive agent or other lead organization with the authority to direct the Military Services and other DoD Components in the development and fielding of counter-small unmanned aircraft systems. (Recommendation)

~~(S//REL USA, FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g [REDACTED]

~~(S//NF)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g / STRATCOM (b)(1)1.4a [REDACTED]

~~(S//REL USA, FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g [REDACTED]

~~(S//REL USA, FVEY)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g [REDACTED]

<sup>18</sup> ~~(S//NF)~~ CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g / STRATCOM (b)(1)1.4a [REDACTED]

## **(U) Recommendation**

### **(U) Recommendation 1**

**(U) We recommend that the Secretary of Defense designate an executive agent or other lead organization with the authority to direct all DoD Components in the development and fielding of counter-small unmanned aircraft systems.**

## **(U) Management Actions**

(U//~~FOUO~~) During the evaluation, the Secretary of Defense took action to address the recommendation. Specifically, the Secretary of Defense issued a memorandum, "Designation of the Secretary of the Army as the DoD Executive Agent for Counter-Small Unmanned Aircraft Systems for Unmanned Aircraft Groups 1, 2, and 3," dated November 18, 2019, that immediately designated the Secretary of the Army as the DoD Executive Agent for C-UAS. The memorandum also designated the USD(A&S) as the Office of the Secretary of Defense Principal Staff Assistant responsible for oversight of the Executive Agent designation.

- (U//~~FOUO~~) The memorandum also directed the following initial responsibilities for the Secretary of the Army, as the DoD Executive Agent, in coordination with the Secretaries of the Military Departments and Combatant Commanders.  
(U//~~FOUO~~) Plan, program, and budget for the research and development of C-UAS capabilities, with cost shared equitably among Military Services to address DoD and Military Service C-UAS requirements.
- (U//~~FOUO~~) Assume responsibility for the research, development, acquisition, and management of common C-UAS systems with oversight of unique Military Service systems.
- (U//~~FOUO~~) Designate responsibilities for current capabilities, as well as the production, sustainment, and support of new C-UAS acquisitions.

(U//~~FOUO~~) The actions taken by the Secretary of Defense addressed the recommendation; therefore, the recommendation is closed.



## **(U) Appendix A**

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### **(U) Scope and Methodology**

(U) We conducted this evaluation from June 2019 through January 2020 in accordance with the "Quality Standards for Inspection and Evaluation," published in January 2012 by the Council of Inspectors General on Integrity and Efficiency. Those standards require that we adequately plan the evaluation to ensure that we meet project objectives and that we perform the evaluation to obtain sufficient, competent, and relevant evidence to support the findings, conclusions, and recommendations. We believe that the evidence obtained was sufficient, competent, and relevant to lead a reasonable person to sustain the findings, conclusions, and recommendations.

(U) To answer our objectives, we met with, and gathered documentation from, officials responsible for C-UAS from the following organizations.

- (U) Under Secretary of Defense for Policy
- (U) Under Secretary of Defense for Acquisition and Sustainment
- (U) Defense Threat Reduction Agency
- (U) Headquarters, Department of the Army
- (U) Secretary of the Air Force, Acquisition
- (U) Deputy Assistant Secretary of the Navy, Air
- (U) Naval Air Command, Unmanned Aviation and Strike Weapons
- (U) Marine Corps Combat Development Command
- (U) U.S. Africa Command
- (U) U.S. Central Command
- (U) U.S. Indo-Pacific Command
- (U) U.S. Northern Command
- (U) U.S. Southern Command
- (U) U.S. Special Operations Command
- (U) U.S. Strategic Command
- (U) U.S. Transportation Command
- (U) Joint Staff, Office of Force Structure, Resource, and Assessment

(U) We determined the current status of DoD C-UAS efforts and capability gaps by reviewing Joint Urgent and Emergent Operational Needs, COCOM Integrated Priority Lists, and UAS incident reporting. We also analyzed C-UAS roadmaps from the Military Services and USSOCOM and plans from the Military Services and other DoD Components with C-UAS responsibilities. We also reviewed the C-SIG implementation memorandum and the briefing slides and meeting minutes from the C-UAS Senior Steering Group and C-UAS SIG to determine the C-SIG efforts and abilities. Finally, we analyzed the C-SIG's authorities with the shortfalls identified in our documentation review and interviews to determine its ability to coordinate and integrate the Military Services' and other DoD Components' efforts to meet evolving C-UAS needs.

### **(U) Use of Computer-Processed Data**

(U) We did not use computer-processed data to perform this evaluation.

### **(U) Prior Coverage**

(U) No prior coverage has been conducted on C-UAS during the last 5 years.

## (U) Appendix B

### (U) Current Status of DoD C-UAS Efforts

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
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(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[Redacted text block]

(U//FOUO) CENTCOM (b)(1)1.7e  
[Redacted text block]

(S//REL USA, FVEY) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[Redacted text block]

(U//FOUO) CENTCOM (b)(1)1.7e  
[Redacted text block]



(U//FOUO) CENTCOM (b)(1)1.7e [REDACTED]  
[REDACTED]  
[REDACTED]

(U) CENTCOM (b)(1)1.7e [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

(U) CENTCOM (b)(1)1.7e [REDACTED], USSOCOM is transitioning from C-UAS development in response to urgent needs to programs of record and fielding prototypes across the handheld, mobile, and fixed site domains. USSOCOM will continue this path through FY 2023, when it plans to transition its C-UAS programs to the Military Services.

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<sup>19</sup> (U) CENTCOM (b)(1)1.7e [REDACTED]  
[REDACTED]

## (U) List of Classified Sources

- Source 1:** (~~S//REL USA, FVEY~~) CENTCOM (b)(1)1.4a, (b)(1)1.4c, (b)(1)1.4g  
[REDACTED]  
[REDACTED]  
[REDACTED]  
Declassification Date: April 16, 2041  
Date of Source: April 16, 2016
- Source 2:** (U) CENTCOM (b)(1)1.7e  
[REDACTED]  
[REDACTED]  
[REDACTED] (~~S//REL USA, FVEY~~)  
Declassification Date: December 7, 2043  
Date of Source: December 7, 2018
- Source 3:** (~~S//REL USA, FVEY~~) Department of Defense Counter-small Unmanned Aircraft Systems Senior Integration Group Meeting Notes  
Declassification Date: Various Dates 2044  
Date of Source: March - September, 2019
- Source 4:** (U//~~FOUO~~) Department of Defense Counter-small Unmanned Aircraft Systems Senior Integration Group Briefing Slides (~~S//REL USA, FVEY~~)  
Declassification Date: Various Dates 2044.  
Date of Source: March - September, 2019

- Source 5:** (U//~~FOUO~~) Department of Defense Counter-small Unmanned Aircraft Systems Senior Integration Group, C-sUAS Executive Committee Briefing Slides (S//REL USA, FVEY)  
Declassification Date: Various Dates 2044  
Date of Source: April - September, 2019
- Source 6:** (U) Deputy Secretary of Defense Memorandum, "Policy Memorandum 17-00X, 'Supplemental Guidance for Countering Unmanned Aircraft (UA),'"  
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Declassification Date: August 1, 2041  
Date of Source July 5, 2017
- Source 7:** (U) Deputy Secretary of Defense Memorandum, "Policy Memorandum 16-003, 'Interim Guidance for Countering Unmanned Aircraft,'" (S//REL USA, FVEY)  
Declassification Date: March 21, 2041  
Date of Source: August 18, 2016
- Source 8:** (U) Information Paper for the Deputy Secretary of Defense, "Department of Defense Lead Organization for Countering Small Unmanned Aerial Systems," (S//NOFORN)  
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[REDACTED]  
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Declassification Date: September 1, 2044  
Date of Source: September 1, 2019
- Source 11:** (U) Joint Staff J-8 Director Action Memorandum, "Synchronizing Counter-small Unmanned Aircraft System Efforts,"  
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Declassification Date: February 5, 2044  
Date of Source: February 5, 2019
- Source 12:** (U) Joint Staff Memorandum, "Combined Joint Task Force-Operation Inherent Resolve (CJTF-OIR) Joint Urgent Operational Needs (JUON) for Counter-Unmanned Aerial System Capabilities (C UAS); CC-0558,"  
(S//REL USA, FVEY)  
Declassification Date: June 15, 2041  
Date of Source: June 15, 2016
- Source 13:** (U) Joint Staff Vice Chairman Memorandum, "U.S. Strategic Command Joint Emergent Operation Need Statement ST-0008, Protection of Assets Vital to National Security in Countering Small Unmanned Aircraft Systems," (S//NOFORN)  
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- Source 14:** (U) Secretary of Defense Memorandum, "Implementation of Counter-Unmanned Aircraft Systems Initiative, (S//REL USA, FVEY)  
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- Source 15:** (U) Under Secretary of Defense for Acquisition and Sustainment Briefing Slides "Counter small-Unmanned Aircraft Systems Overview,"  
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- Source 16:** (U) ~~CENTCOM (b)(1)1.7e~~  
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Declassification Date: June 19, 2044.  
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- Source 17:** (U) ~~CENTCOM (b)(1)1.7e~~  
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Declassification Date: November 15, 2043.  
Date of Source: November 15, 2018
- Source 18:** (U) United States Special Operations Command Information Paper,  
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USSOCOM Counter-UAS Activities as of 13 Dec 18;" (S//REL USA, FVEY)  
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- Source 19:** (U) United States Special Operations Command Information Paper,  
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Declassification Date: November 29, 2043  
Date of Source: Undated
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Declassification Date: June 17, 2041  
Date of Source: July 25, 2016

## **(U) Acronyms and Abbreviations**

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<b>USCENTCOM</b>	U.S. Central Command
<b>C-SIG</b>	Counter-Small Unmanned Aircraft System Senior Integration Group
<b>C-UAS</b>	Counter-Small Unmanned Aircraft System
<b>JEON</b>	Joint Emergent Operational Need
<b>JUON</b>	Joint Urgent Operational Need
<b>MRAP</b>	Mine Resistant Ambush Protected
<b>UAS</b>	Unmanned Aircraft System
<b>USCENTCOM</b>	U.S. Central Command
<b>USD(A&amp;S)</b>	Under Secretary of Defense for Acquisition and Sustainment
<b>USSOCOM</b>	U.S. Special Operations Command



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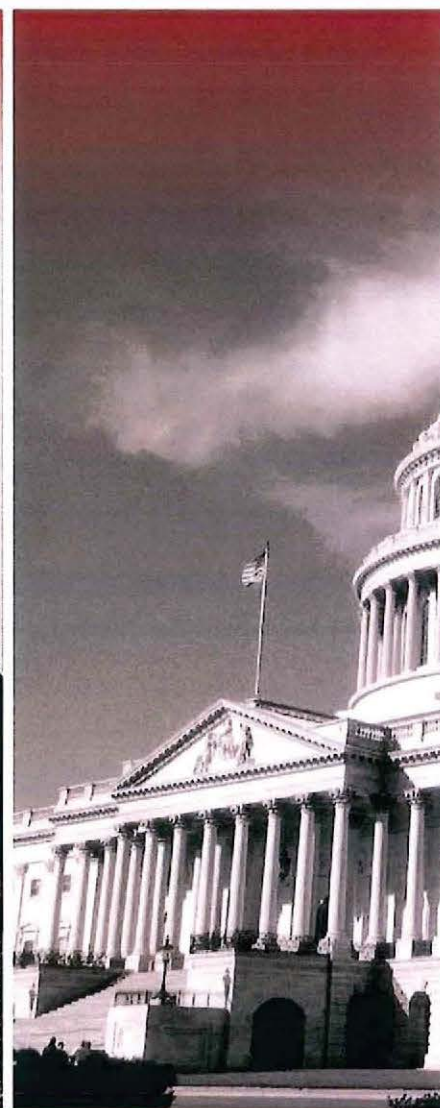
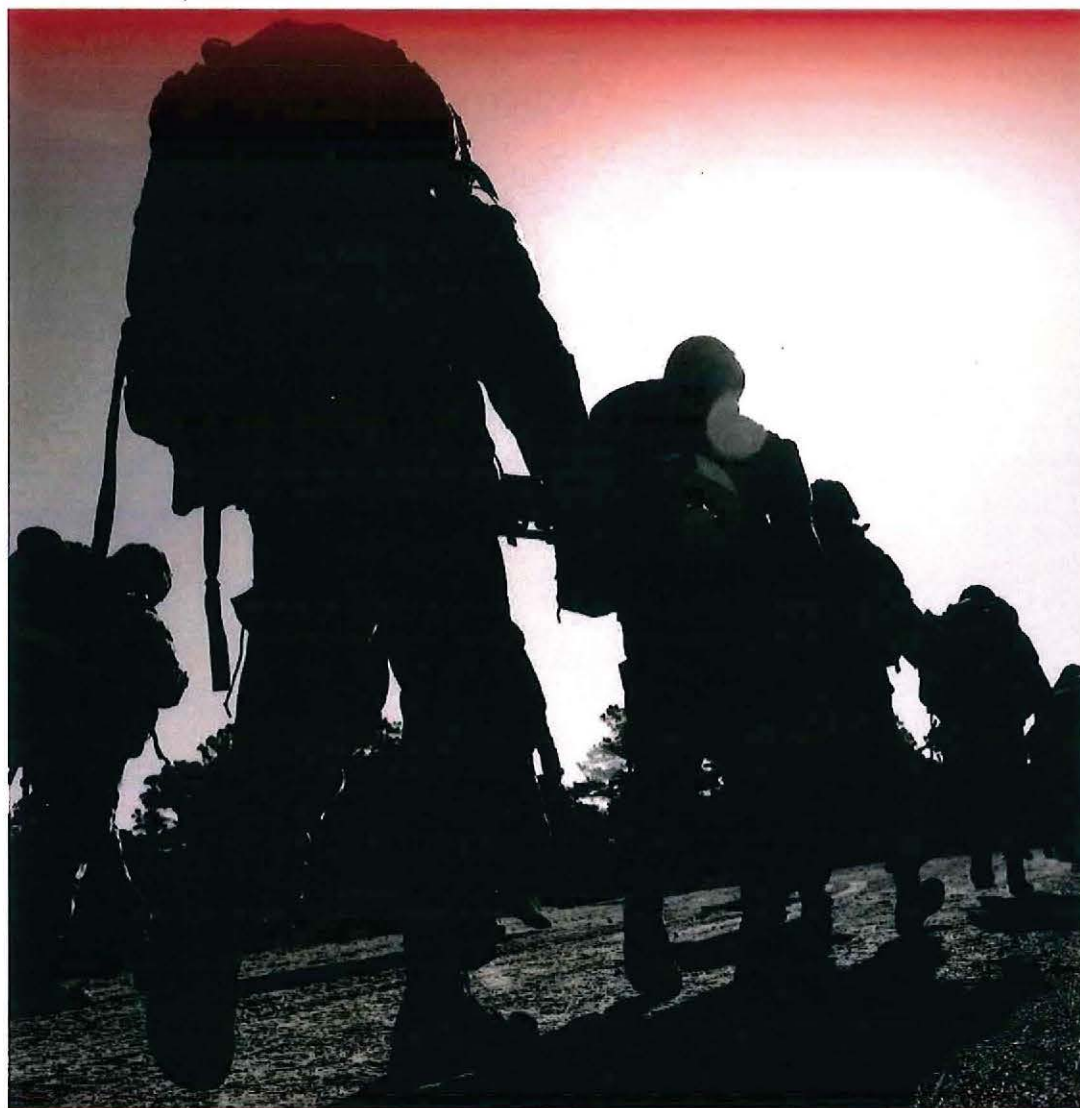
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