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**Department of Defense
Fiscal Year (FY) 2023 Budget Estimates**

April 2022



Washington Headquarters Services

Defense-Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

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Washington Headquarters Services • Budget Estimates FY 2023 • RDT&E Program

Table of Volumes

Defense Advanced Research Projects Agency..... Volume 1
Missile Defense Agency..... Volume 2
Office of the Secretary Of Defense..... Volume 3
Chemical and Biological Defense Program.....Volume 4
Defense Contract Audit Agency..... Volume 5
Defense Contract Management Agency..... Volume 5
Defense Counterintelligence and Security Agency..... Volume 5
Defense Information Systems Agency.....Volume 5
Defense Logistics Agency.....Volume 5
Defense Security Cooperation Agency..... Volume 5
Defense Technical Information Center.....Volume 5
Defense Threat Reduction Agency.....Volume 5
DoD Human Resources Activity..... Volume 5
Operational Test and Evaluation, Defense..... Volume 5
Space Development Agency..... Volume 5
The Joint Staff..... Volume 5

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Washington Headquarters Services • Budget Estimates FY 2023 • RDT&E Program

United States Special Operations Command..... Volume 5
Washington Headquarters Services..... Volume 5

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Washington Headquarters Services • Budget Estimates FY 2023 • RDT&E Program

Volume 5 Table of Contents

Comptroller Exhibit R-1..... Volume 5 - v
Program Element Table of Contents (by Budget Activity then Line Item Number).....Volume 5 - xvii
Program Element Table of Contents (Alphabetically by Program Element Title).....Volume 5 - xix
Exhibit R-2s..... Volume 5 - 1

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Department of Defense
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

04 Apr 2022

Appropriation -----	FY 2021 (Base + OCO)	FY 2022 Less Supplementals Enactment	FY 2022	FY 2022	FY 2022	FY 2022
			Division B Division C P.L.117-43 Enactment*	Division B P.L.117-70 Enactment**	Division A P.L. 117-86 Enactment***	Division N P.L. 117-103 Enactment****
Research, Development, Test & Eval, DW	999	918				
Total Research, Development, Test & Evaluation	999	918				

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of April 4, 2022 at 09:47:34

*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

**Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

***Includes enacted funding pursuant to the Further Additional Extending Government Funding Act (Public Law 117-86).

****Includes enacted funding pursuant to the Ukraine Supplemental Appropriations Act (Public Law 117-103).

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Department of Defense
FY 2023 President's Budget
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(Dollars in Thousands)

04 Apr 2022

Appropriation -----	FY 2022 Total Supplemental Enactment -----	FY 2022 Total Enactment -----	FY 2023 Request -----
Research, Development, Test & Eval, DW		918	
Total Research, Development, Test & Evaluation		918	

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Department of Defense
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 (Dollars in Thousands)

04 Apr 2022

	FY 2021 (Base + OCO)	FY 2022 Less Supplementals Enactment	FY 2022 Division B P.L.117-43 Enactment*	FY 2022 Division B P.L.117-70 Enactment**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****
Summary Recap of Budget Activities -----						
Management Support	999	918				
Total Research, Development, Test & Evaluation	999	918				
Summary Recap of FYDP Programs -----						
Research and Development	999	918				
Total Research, Development, Test & Evaluation	999	918				

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Summary Recap of Budget Activities -----			
Management Support		918	
Total Research, Development, Test & Evaluation		918	
Summary Recap of FYDP Programs -----			
Research and Development		918	
Total Research, Development, Test & Evaluation		918	

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Defense-Wide
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 (Dollars in Thousands)

04 Apr 2022

	FY 2021 (Base + OCO)	FY 2022 Less Supplementals Enactment	FY 2022 Division B P.L.117-43 Enactment*	FY 2022 Division B P.L.117-70 Enactment**	FY 2022 Division A P.L. 117-86 Enactment***	FY 2022 Division N P.L. 117-103 Enactment****
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Summary Recap of Budget Activities -----			
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Total Research, Development, Test & Evaluation		918	
Summary Recap of FYDP Programs -----			
Research and Development		918	
Total Research, Development, Test & Evaluation		918	

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Defense-Wide
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 (Dollars in Thousands)

04 Apr 2022

Appropriation -----	FY 2021 (Base + OCO)	FY 2022 Less Supplementals Enactment	FY 2022	FY 2022	FY 2022	FY 2022
			Division B Division C P.L.117-43 Enactment*	Division B P.L.117-70 Enactment**	Division A P.L. 117-86 Enactment***	Division N P.L. 117-103 Enactment****
Washington Headquarters Services	999	918				
Total Research, Development, Test & Evaluation	999	918				

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Defense-Wide
FY 2023 President's Budget
Exhibit R-1 FY 2023 President's Budget
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(Dollars in Thousands)

04 Apr 2022

Appropriation -----	FY 2022 Total Supplemental Enactment -----	FY 2022 Total Enactment -----	FY 2023 Request -----
Washington Headquarters Services		918	
Total Research, Development, Test & Evaluation		918	

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of April 4, 2022 at 09:47:34

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Defense-Wide
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

04 Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element No Number	Item	Act ---	FY 2021 (Base + OCO) -----	FY 2022 Less Supplementals Enactment -----	FY 2022	FY 2022	FY 2022	FY 2022	FY 2022
						Division B Division C P.L.117-43 Enactment*	Division B P.L.117-70 Enactment**	Division A P.L. 117-86 Enactment***	Division N S P.L. 117-103 e Enactment**** c	
178	0606589D8W	Defense Digital Service (DDS) Development Support	06	999	918					U
		Management Support		999	918					
Total Research, Development, Test & Eval, DW				999	918					

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of April 4, 2022 at 09:47:34

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Washington Headquarters Services
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
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 (Dollars in Thousands)

04 Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element No Number	Item	Act ---	FY 2021 (Base + OCO) -----	FY 2022 Less Supplementals Enactment -----	FY 2022	FY 2022	FY 2022	FY 2022
						Division B Division C P.L.117-43 Enactment*	Division B P.L.117-70 Enactment**	Division A P.L. 117-86 Enactment***	Division N S P.L. 117-103 e Enactment**** c
178	0606589D8W	Defense Digital Service (DDS) Development Support	06	999	918				
		Management Support		999	918				
		Total Washington Headquarters Services		999	918				

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of April 4, 2022 at 09:47:34

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Washington Headquarters Services
 FY 2023 President's Budget
 Exhibit R-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

04 Apr 2022

Appropriation: 0400D Research, Development, Test & Eval, DW

Line	Program Element	Item	Act	FY 2022 Total Supplemental Enactment	FY 2022 Total Enactment	FY 2023 Request	S e c e U
--	-----	----	---	-----	-----	-----	-
178	0606589D8W	Defense Digital Service (DDS) Development Support	06		918		U
	Management Support				918		
Total Washington Headquarters Services					918		

R-123PBP: FY 2023 President's Budget (Total Base Published Version), as of April 4, 2022 at 09:47:34

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Washington Headquarters Services • Budget Estimates FY 2023 • RDT&E Program

Program Element Table of Contents (by Budget Activity then Line Item Number)

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Line #	Budget Activity	Program Element Number	Program Element Title	Page
178	06	0606589D8W	Defense Digital Service (DDS) Development Support.....	Volume 5 - 1

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Washington Headquarters Services • Budget Estimates FY 2023 • RDT&E Program

Program Element Table of Contents (Alphabetically by Program Element Title)

Program Element Title	Program Element Number	Line #	BA	Page
Defense Digital Service (DDS) Development Support	0606589D8W	178	06.....	Volume 5 - 1

UNCLASSIFIED

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Washington Headquarters Services **Date:** April 2022

Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support	R-1 Program Element (Number/Name) PE 0606589D8W I Defense Digital Service (DDS) Development Support
--	---

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	11.920	0.999	0.918	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
281: Defense Digital Service (DDS)	11.920	0.999	0.918	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Note

New start (Y/N): No

Effective February 1, 2022 the Department of Defense established the position of the Chief Digital and Artificial Intelligence Officer and the Office of the Chief Digital and Artificial Intelligence Officer (OCDAO), tasked with serving as the Department’s senior official, and a Principal Staff Assistant, responsible for strengthening and integrating data, artificial intelligence, and digital solutions. The transfer out supports the consolidation of the Department’s existing functional efforts in order to align manpower and funding resources under the OCDAO.

A. Mission Description and Budget Item Justification

Launched in November 2015, and formally chartered under DoD Directive 5105.87 in January 2017, Defense Digital Service (DDS) is charged with bringing the best available technology in an efficient way into the DoD. The DDS serves as an organization composed of commercially experienced software developers, software designers, product managers, and problem solvers within the DoD, who utilize best-in-class private sector practices, talent, and technology to transform the way digital services are delivered within the Department.

The DDS uses design and technology to improve government services, strengthen national defense, and care for military members and their families. For FY 2022, DDS will continue previous innovative efforts, leverage public and private sector initiatives, and pursue innovative solutions to transform technology and improve and expand modern digital services and capabilities across the Department.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Washington Headquarters Services	Date: April 2022
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0606589D8W I <i>Defense Digital Service (DDS) Development Support</i>
--	--

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.999	0.918	0.000	-	0.000
Current President's Budget	0.999	0.918	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Year	-	-	0.000	-	0.000

Change Summary Explanation

Previous President's Budget funding for FY 2023 reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

Starting in FY 2023, all funding is transferred to establishment of the Office of the Chief Digital and Artificial Intelligence Officer.

Effective February 1, 2022 the Department of Defense established the position of the Chief Digital and Artificial Intelligence Officer and the Office of the Chief Digital and Artificial Intelligence Officer (OCDAO), tasked with serving as the Department's senior official, and a Principal Staff Assistant, responsible for strengthening and integrating data, artificial intelligence, and digital solutions. The realignment in FY 2023 from DDS to CDAO supports the consolidation of the Department's existing functional efforts in order to align manpower and funding under the OCDAO.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Washington Headquarters Services										Date: April 2022		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0606589D8W / <i>Defense Digital Service (DDS) Development Support</i>				Project (Number/Name) 281 / <i>Defense Digital Service (DDS)</i>			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
281: <i>Defense Digital Service (DDS)</i>	11.920	0.999	0.918	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

DDS builds software prototypes and implements proof-of-concept tests for key Department projects that support missions and long term goals of the Department to modernize its offensive and defensive technological capabilities. This funding will allow DDS to determine which private sector software development best practices and/or technology work best for the Department. DDS research and development is one of the Secretary of Defense's top priorities with the intent of advancing and modernizing technology, especially software systems, critical to the successful implementation of a variety of Department and war fighter missions. DDS requirements are driven by challenging technical problems identified by the Secretary of Defense where technology is failing the Department's mission and could impede the lethality and effectiveness of the war fighter. These technical problems vary in scope and complexity, but at a minimum, when resolved, have a positive impact on the war fighter's mission and capabilities. DDS involvement may be in the development of new code, product management, advising on code development processes and releases, and hacking or re-writing existing policies or processes that are antiquated or otherwise unnecessary. DDS engages on highly troubled projects to quickly implement fixes that ultimately reduce schedule slip, increase security, lower costs, improve user experiences, and accelerate performance.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
Title: Defense Digital Service (DDS)	0.999	0.918	0.000
<p>Description: DDS has provided services and tools that have improved and saved the lives of Service members and their families, and provided technological superiority in areas critical to national defense. DDS successfully completed the System for Automated Background Evaluation and Review prototype and continues counter-unmanned aerial systems (cUAS) work, as well as, the Hack the Pentagon program with multiple bug bounties including Hack the Air Force 5, Hack the Army 3, Hack the PFPA 2, Hack the Kessel Run, and a partnership with DARPA centered around hardware security. DDS continues to support cyber adversary detection and negation via multiple projects, including a domain name system security project. DDS has transitioned the MilMove/DP3 project to TRANSCOM and completed the Army Cyber Soldier training curriculum updates.</p> <p>FY 2022 Plans: The DDS plans to develop mature cUAS solutions for the warfighter. DDS will further expand detection capabilities, ruggedization, and integration capabilities. DDS will also enhance mitigation capabilities via drone-on-drone defeat capabilities ("Drogon") and for a middleware platform to enhance cUAS system interoperability and facilitate development of a data lake to improve drone analysis, detection, and defeat capabilities.</p> <p>FY 2023 Plans:</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Washington Headquarters Services		Date: April 2022
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0606589D8W / <i>Defense Digital Service (DDS) Development Support</i>	Project (Number/Name) 281 / <i>Defense Digital Service (DDS)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
The DDS plans on continuing its mission under the CDAO, tasked with serving as the Department's senior official, and a PSA, responsible for strengthening and integrating data, artificial intelligence, and digital solutions. The transfer in supports the consolidation of the Department's existing functional efforts in order to align manpower and funding resources under the OCDAO. This extends to cyber warfare testing and development through digital service tools and capabilities across the Defense domain. FY 2022 to FY 2023 Increase/Decrease Statement: Decrease reflects the complete realignment of DDS to the OSD CDAO beginning in FY 2023.			
Accomplishments/Planned Programs Subtotals	0.999	0.918	0.000

C. Other Program Funding Summary (\$ in Millions)												
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>	
• O&M: BA 4, PE 0901589D8W	4.520	3.174	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A