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**Department of Defense
Fiscal Year (FY) 2019 Budget Estimates**

February 2018



The Joint Staff

Defense-Wide Justification Book Volume 1 of 2

Procurement, Defense-Wide

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Appropriation -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
Procurement, Defense-Wide	7,988	10,244	10,244	
Total Defense-Wide	7,988	10,244	10,244	

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Appropriation -----	FY 2018 Total PB Requests+ with CR Adj OCO -----	FY 2018 Emergency Requests** Emergency -----	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req Emergency -----
Procurement, Defense-Wide				
Total Defense-Wide				

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Appropriation -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
Procurement, Defense-Wide	10,244		10,244
Total Defense-Wide	10,244		10,244

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Appropriation -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
Procurement, Defense-Wide	5,264		5,264
Total Defense-Wide	5,264		5,264

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Defense-Wide
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Organization: Procurement, Defense-Wide -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
The Joint Staff, TJS	7,988	10,244	10,244	
Total	7,988	10,244	10,244	

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

	FY 2018 Total PB Requests+ with CR Adj OCO	FY 2018 Emergency Requests** Emergency	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req Emergency
Organization: Procurement, Defense-Wide -----				
The Joint Staff, TJS				
Total				

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 FY 2019 President's Budget
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 (Dollars in Thousands)

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	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency**	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency
-----	-----	-----	-----
Organization: Procurement, Defense-Wide			

The Joint Staff, TJS	10,244		10,244
Total	10,244		10,244

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Organization: Procurement, Defense-Wide -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
The Joint Staff, TJS	5,264		5,264
Total	5,264		5,264

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Defense-Wide
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Appropriation: Procurement, Defense-Wide

Budget Activity -----	FY 2017 (Base + OCO) -----	FY 2018 PB Request with CR Adj Base -----	FY 2018 Total PB Requests* with CR Adj Base -----	FY 2018 PB Request with CR Adj OCO -----
01. Major Equipment	7,988	10,244	10,244	
Total Procurement, Defense-Wide	7,988	10,244	10,244	

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FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Appropriation: Procurement, Defense-Wide

Budget Activity -----	FY 2018 Total PB Requests+ with CR Adj OCO -----	FY 2018 Emergency Requests** Emergency -----	FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req Emergency -----
01. Major Equipment				
Total Procurement, Defense-Wide				

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 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Appropriation: Procurement, Defense-Wide

Budget Activity -----	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** -----	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs -----	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency -----
01. Major Equipment	10,244		10,244
Total Procurement, Defense-Wide	10,244		10,244

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Defense-Wide
FY 2019 President's Budget
Exhibit P-1 FY 2019 President's Budget
Total Obligational Authority
(Dollars in Thousands)

26 Jan 2018

Appropriation: Procurement, Defense-Wide

Budget Activity -----	FY 2019 Base -----	FY 2019 OCO -----	FY 2019 Total -----
01. Major Equipment	5,264		5,264
Total Procurement, Defense-Wide	5,264		5,264

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Defense-Wide
 FY 2019 President's Budget
 Exhibit P-1 FY 2019 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Appropriation: 0300D Procurement, Defense-Wide

Line No	Item Nomenclature	Ident Code	FY 2017 (Base + OCO) Quantity Cost	FY 2018 PB Request with CR Adj Base Quantity Cost	FY 2018 Total PB Requests* with CR Adj Base Quantity Cost	FY 2018 PB Request with CR Adj OCO Quantity Cost	S e c
Budget Activity 01: Major Equipment							
Major Equipment, TJS							
44	Major Equipment, TJS		7,988	9,341	9,341		U
45	Major Equipment, TJS - CE2T2	A		903	903		U
Total Major Equipment			7,988	10,244	10,244		
Total Procurement, Defense-Wide			7,988	10,244	10,244		

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 FY 2019 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Appropriation: 0300D Procurement, Defense-Wide

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests+ with CR Adj OCO		FY 2018 Emergency Requests** Emergency		FY 2018 Less Enacted Div B P.L.115-96*** MDDE + Ship Repairs		FY 2018 Remaining Req Emergency		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Major Equipment											
Major Equipment, TJS											
44	Major Equipment, TJS										U
45	Major Equipment, TJS - CE2T2	A									U
Total Major Equipment											
Total Procurement, Defense-Wide											

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 FY 2019 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Appropriation: 0300D Procurement, Defense-Wide

Line No	Item Nomenclature	Ident Code	FY 2018 Total PB Requests* with CR Adj Base + OCO + Emergency** Quantity	Cost	FY 2018 Less Enacted DIV B P.L.115-96*** MDDE + Ship Repairs Quantity	Cost	FY 2018 Remaining Req with CR Adj Base + OCO + Emergency Quantity	Cost	S e c
Budget Activity 01: Major Equipment									
Major Equipment, TJS									
44	Major Equipment, TJS		9,341				9,341		U
45	Major Equipment, TJS - CE2T2	A	903				903		U
Total Major Equipment			10,244				10,244		
Total Procurement, Defense-Wide			10,244				10,244		

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Defense-Wide
 FY 2019 President's Budget
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 Total Obligational Authority
 (Dollars in Thousands)

26 Jan 2018

Appropriation: 0300D Procurement, Defense-Wide

Line No	Item Nomenclature	Ident Code	FY 2019 Base Quantity	Cost	FY 2019 OCO Quantity	Cost	FY 2019 Total Quantity	Cost	S e c
Budget Activity 01: Major Equipment									
Major Equipment, TJS									
44	Major Equipment, TJS		4,360				4,360		U
45	Major Equipment, TJS - CE2T2	A	904				904		U
Total Major Equipment			5,264				5,264		
Total Procurement, Defense-Wide			5,264				5,264		

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45	01	15	80	Major Equipment, TJS - CE2T2.....	Volume 1 - 5

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Major Equipment, TJS - CE2T2	80	45	01	15.....	Volume 1 - 5

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Exhibit P-40, Budget Line Item Justification: PB 2019 The Joint Staff										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 15: Major Equipment, TJS							P-1 Line Item Number / Title: 10 / Major Equipment, TJS					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	76.029	7.988	9.341	4.360	-	4.360	7.363	4.384	4.378	4.378	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	76.029	7.988	9.341	4.360	-	4.360	7.363	4.384	4.378	4.378	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	76.029	7.988	9.341	4.360	-	4.360	7.363	4.384	4.378	4.378	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
<p>The Chairman of the Joint Chiefs of Staff (CJCS) is the principal military adviser to the President, National Security Council, and Secretary of Defense. The Chairman presides over and serves as a member of the Joint Chiefs of Staff. CJCS relies upon the Joint Staff to craft and distribute guidance for combatant forces' unified strategic direction, operations under unified commands, and integration into effective combat forces. On behalf of the Chairman, the Joint Staff provides Combatant Commands (CCMDs), the Services, and U.S. war fighters with joint policy, strategy, and doctrine necessary to employ effective joint combat forces in contingencies worldwide.</p>												
Justification:												
<p>The Joint Staff requests \$4.360M in FY 2019 procurement for mission critical information technology systems, and applications investment requirements. The procurement request resources various efforts across the Joint Staff, including investments in joint force development data center and Information Technology (IT) / Information Security (IS) equipment.</p>												
<p>1. Joint Lessons Learned Information System (JLLIS): No new procurement funding is required for FY 2018 and beyond.</p>												
<p>2. Planning and Decision Aid System (PDAS): PDAS realigned Procurement funding, \$3,000K per year, to O&M to fund higher priority requirements for the following years: FY 2019, FY 2021 – FY2023</p>												
<p>PDAS is a classified, protected program operated by the Joint Staff. PDAS supports the planning and execution of Joint Staff and Unified Combatant Commanders (COCOM) operations. PDAS is a world-wide network protecting sensitive information that meets the Intelligence Community Directive (ICD) 503 security requirements. PDAS provides office automation packages, document and information management tools; collaboration, voice, and video tools in a secure, flexible architecture that promotes a distributed enterprise. Within the enterprise, PDAS users have access to their data regardless of log-on location, secure data exchange, conferencing and planning sessions among physically distributed continental United States (CONUS) and outside continental United States (OCONUS) locations. Users are provided access to a Help Desk and remote troubleshooting within the PDAS enterprise.</p>												
<p>Equipment modernization will allow the Joint Staff to develop plans to implement materiel solutions to address hardware and software configuration items that are outdated, nearing end-of-life or end-of-support or which can no longer be commercially acquired. Historically, this equipment has been purchased as required due to failures, end-of-life, or end-of-service which has led to many baselines and configurations of deployed hardware, software and communications equipment. Items reach end-of-life in different years providing a cascade of equipment replacement requirements. This spacing lessens the financial impact but</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2019 The Joint Staff		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 15: Major Equipment, TJS		P-1 Line Item Number / Title: 10 / Major Equipment, TJS
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>requires constant purchase, integration, testing and installation. Integration and testing ensures that hardware or software is compatible with other installed hardware and software configuration items and does not introduce vulnerabilities into PDAS, or allow unauthorized personnel to gain access to information for which they are not authorized. There are four specific focus uses as follows.</p> <p>PDAS funding will be used to procure additional program site installations, datacenter refresh, client refresh, and equipment modernizations. Due to the cyclic nature of the PDAS technical refresh requirement of datacenters, client computers and other IT equipment, this program presents a non-linear funding profile with noticeable spikes in funding requirements during technical refresh years. When possible, equipment is purchased in increments across fiscal years which mitigates spikes in funding requirements.</p> <p>Procurement of additional PDAS program site installations will allow the Joint Staff operational sponsor and program manager to complete the installation of additional PDAS user sites. PDAS is comprised of hundreds of user sites with thousands of users worldwide. In recent years, the number of PDAS sites grew by 25 percent with planned expansion of both sites and users. PDAS sites provide capabilities, services and the infrastructure necessary to meet operational mission needs.</p> <p>Datacenter refresh will allow the Joint Staff to provide refreshed datacenter hardware and software. The hardware and software to be replaced is reaching the end of its service life and approaching obsolescence. New equipment for the datacenters will enable the PDAS program to consolidate equipment baselines and provide commonality at the datacenters. This periodic refresh provides PDAS with an updated hardware and software infrastructure, enabling improved performance, security, efficiency, and reduced logistical requirements. From an operational perspective, it moves the program from event-driven, reactive situations of coping with the latest problem to a more proactive, forward-facing operational posture. The focus becomes one of preemptive quality assurance, standardization, and optimization.</p> <p>Client refresh will allow the Joint Staff to provide updated computer hardware to the PDAS users in order to be compliant with Security Control 28 (protection of information at rest to prevent insider threats). This periodic refresh provides the users with an up to date hardware and software infrastructure, enabling improved performance, security, efficiency, and reducing logistical requirements. Deferment of this purchase will require development of additional computer operating system baselines on deployed computer clients, significantly increasing life-cycle sustainment cost in future years.</p> <p>3. Management Headquarters: Management Headquarters provides the day-to-day financial resources necessary to conduct Joint Staff operations. Funding supports the Joint Integrated Air & Missile Defense Organization (JIAMDO), Joint Range Extender (JRE), mission-unique non-Joint Service Provider (JSP), Joint Staff IT requirements, and technology upgrades for the joint training facility.</p> <p>There are two JIAMDO focus areas:</p> <p>JIAMDO uses funds to support a Near Real Time (NRT) Server in support of Combat Identification (CID) applications. The NRT Server provides an increased storage capacity for NRT data for real-time processing as well as testing and evaluation of new capabilities. It provides the ability to store non-standard data securely and also to enable future use of the data in development and testing. This item supports JIAMDO's national-to-tactical CID mission. Additional details are classified.</p> <p>JIAMDO also uses these funds to procure JRE, semi-rugged laptops (with JRE software license) and JRE help desk support. These JREs are required to support JIAMDO's advanced combat identification efforts. The JREs will be installed in the digital integration for combat employment joint mobile lab and will support hosting of Link 16 terminals for participation in exercises, testing, and operational events. The purpose of this funding is to develop and operationalize enhanced CID capability. This item supports JIAMDO's national-to-tactical CID mission. Additional details are classified.</p> <p>Note: All JIAMDO procurement funding (~\$100K per year) was moved to RDT&E to fund higher priority requirements for FY 2019 and beyond.</p> <p>Management Headquarters funds are also used to procure major hardware and software technology upgrades investments for the Suffolk, VA, joint training facility. These funds provide significant network distribution/security, data processing, and capacity upgrades to the Suffolk Data Center to increase performance, security, reliability, and accessibility to the Combatant Commands and Services. Capability upgrades are required to host current joint training applications (Joint Knowledge Online, Joint Training Information Management System, Joint Lessons Learned Information Systems, and Joint Live, Virtual, and Constructive simulations). Additionally, the upgrades provide support to multi-site, multi-command, distributed live, virtual, and constructive joint force training events addressing transregional, multi-domain, and multi-functional threat environments.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 The Joint Staff		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 15: Major Equipment, TJS		P-1 Line Item Number / Title: 10 / Major Equipment, TJS
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>The Deputy Secretary of Defense (DepSecDef) approved the alignment of common IT services in the Pentagon and the National Capital Region to the Joint Service Provider (JSP) operating as a field service activity in Defense Information Systems Agency (DISA). In 2018, the Joint Staff Information Network (JSIN) resources permanently transferred to the JSP (DISA PE 0305830K). The overall effect to the Department was a net-zero profile change for FY 2018 and beyond. Limited IT procurement funding was retained for mission-unique, non-JSP Joint Staff IT requirements.</p> <p>4. Joint Information Operations Range (JIOR): The JIOR provides DoD a closed-loop, persistent, geographically distributed network to conduct training, testing, and experimentation in support of Computer Network Attack (CNA)/Computer Network Defense (CND) in a threat representative environment with realistic and relevant targets and command & control systems of interest. JIOR provides Services, Combatant Commanders (CCMDs), and other government agencies the ability to gain insights into advanced cyberspace, information operations (IO), and electronic warfare (EW) capabilities under current and future operational environment conditions. JIOR integrates other cyberspace ranges, replicates critical infrastructure, cyber targets, Internet traffic, and opposing forces. The JIOR security construct allows users to develop, test, and secure their unique cyber capabilities and protect their identity during range activities. The JIOR hosts multiple, simultaneous, and disparate training/certification, testing, and experimentation events on a secure, closed-loop enterprise network.</p> <p>The Department provided JIOR with resources (as a plus up FY 2018-FY 2022) to add 36 Guard and Reserve locations to the JIOR closed loop network. Adding these Guard and Reserve sites to the JIOR supports training and readiness of Cyber Mission Force (CMF) drilling at those locations. Specifically, the funding will be used to procure hardware and software to build and install 36 unique points required to connect these additional CMF teams to the JIOR network. Additionally, the funding will be used to complete overarching technology upgrades/modernization to the JIOR enterprise network. Equipment and software modernization will enable the JIOR to extend service to the 36 new sites/SDPs while continuing support to the existing 138+ JIOR access points. Historically, JIOR had limited IT refresh funding and has purchased replacement hardware due to failures, end-of-life, or end-of-service constraints which has not allowed for a focused modernization effort. Given the increased cyber mission focus, periodic technology upgrades are required to make the JIOR more efficient, agile, and sufficiently robust to accommodate this significant network expansion in support of additional CMF demand.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2019 The Joint Staff										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 15: Major Equipment, TJS							P-1 Line Item Number / Title: 80 / Major Equipment, TJS - CE2T2					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.903	0.904	-	0.904	0.912	1.473	1.024	1.024	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.903	0.904	-	0.904	0.912	1.473	1.024	1.024	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.903	0.904	-	0.904	0.912	1.473	1.024	1.024	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: <p>The Chairman of the Joint Chiefs of Staff (CJCS) is the principal military adviser to the President, National Security Council, and Secretary of Defense. The Chairman presides over and serves as a member of the Joint Chiefs of Staff. CJCS relies upon the Joint Staff (TJS) to craft and distribute guidance for combatant forces' unified strategic direction, operations under unified commands, and integration into effective combat forces. On behalf of the Chairman, TJS provides Combatant Commands (CCMDs), the Services, and U.S. war fighters with joint policy, strategy, and doctrine necessary to employ effective joint combat forces in contingencies worldwide.</p>												
Justification: <p>The FY 2019 Joint Staff procurement appropriation resources mission critical hardware/software requirements for Combatant Commander's Exercise Engagement & Training Transformation (CE2T2).</p> <p>The funding profile increase between FY 2017 and FY 2018 is due to CE2T2 transferring to the Joint Staff from the Office of the Undersecretary of Defense (Personnel and Readiness) for direct execution and oversight of the program across the Services, Combatant Commands, and the Joint Staff. Transferring funding for the execution of CE2T2 through the Joint Staff is intended to provide improvements to the Chairman of the Joint Chiefs of Staff focus areas consisting of the following: 1) restoring joint readiness; 2) improving our joint warfighting capability; and 3) developing leaders for Joint Forces Next.</p> <p>The CE2T2 program continues to strengthen, expand, and develop Joint Force warfighting capabilities and competencies. Specifically, CE2T2 includes the following procurement activities:</p> <p>1. USCYBERCOM requires procurement funding for hardware and software capabilities to preserve and expand current infrastructure. The current Cyber Range instrumentation provides a joint cyberspace training range to support United States Cyber Command (USCYBERCOM)-led CYBER FLAG, CYBER GUARD, and CYBER KNIGHT exercises. As part of the joint cyberspace training initiative, continuance and expansion of the cyber range infrastructure is needed to support the Combatant Commanders, Services and USCYBERCOM joint cyber training and exercise requirements. The current target environment includes a "blue forces" Department of Defense Information Network to include Network Operations Security Centers, a "gray" network of internet spaces to include .gov and .edu domains that will emulate Internet sites and user activities, a realistic representation of an adversary "red" network, and a management systems network. This emulated training environment is designed to utilize the existing Joint Information Operation Range (JIOR) transport layer to directly support USCYBERCOM's mission. Moreover, it helps establish the Joint Force Cyber Training Range capability and directly supports the training and certification of Cyber Mission Forces. Procurement funding is imperative to increase storage capacity and improve the survivability/durability of the target environment. Additionally, ongoing hardware modernization efforts coupled with Opposing Forces (OPFOR) software requirements, necessitate CE2T2 procurement funding lines.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2019 The Joint Staff		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 0300D: Procurement, Defense-Wide / BA 01: Major Equipment / BSA 15: Major Equipment, TJS		P-1 Line Item Number / Title: 80 / Major Equipment, TJS - CE2T2
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>2. Joint Interoperability Division (JID): JID is a critical enabler to the training transformation program as sole DoD provider of Tactical Data Link (TDL) and Joint Interface Control Officer (JICO) training and requires procurement funding for one Multifunctional Information Distribution System - Joint Tactical Radio System (MIDS-JTRS / MIDS-J). The MIDS-J is a software programmable four-channel Link-16, enhanced throughput, frequency remapping, wideband networking waveform, UHF/VHF specialized radio. Procurement of this radio will enable the JID to train tactical data link students across the services on current equipment being used in the field to bring real-time situational awareness, location, targeting, and C2 data to smart bombs, dispersed joint forces on foot, or tactical vehicles in the air, land, or maritime environments. The MIDS-J radio system is required to support planning, implementation, and operations of mobile network connectivity to tactical war fighters and disadvantaged platforms such as ground vehicles, helicopters, unmanned aircraft, and small boats. Currently, MIDS-J is onboard the F/A-18E/F Super Hornet fighter family, the E-8C JSTARS battlefield surveillance & communication aircraft, and the RC-135 Rivet Joint airplane. Future weapon systems include the EC-130H Compass Call electronic warfare variant of the Hercules turboprop, E-2 Hawkeye and AWACS air/maritime surveillance airplanes, as well the Navy's aircraft carriers, destroyers, and cruisers. The USAF will eventually field it on F-15E Strike Eagles, its B-1B and B-52H bombers, Special Operations aircraft, ground C2 and Intelligence, Surveillance, Reconnaissance (ISR) units.</p>		