

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs	R-1 Program Element (Number/Name) PE 0308606F I All Domain Common Platform (ADCP) - Software Pilot Program
--	--

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	-	0.000	0.000	190.112	0.000	190.112	175.196	190.889	187.666	188.307	0.000	932.170
682015: All Domain Common Platform	-	0.000	0.000	190.112	0.000	190.112	175.196	190.889	187.666	188.307	0.000	932.170
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 In FY 2023, PE 0308606F, All Domain Common Platform (ADCP), Project 682015, was transferred from RDT&E, AF, PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development, OPAF PE 0303248F, All Domain Common Platform (ADCP), Line Item 833140, Strategic Command and Control, and OMAF Operating Forces, Activity Group, Combat Related Operations, Sub-Activity Group 12A, Global C3I & Early Warning, in order to a participate in DoD's Budget Activity 08 (BA08) for Software and Digital Technology Pilot Program.

A. Mission Description and Budget Item Justification

This effort is not a new start. The FY 2018 NDAA Sections 873/874 directed OSD to streamline software development. The All Domain Common Platform (ADCP) is an OUSD(A&S) pilot initiative in which all lifecycle funding will be tracked under BA08, Software and Digital Technology Pilot Programs. Pilot programs will test the ability to execute modern software development practices encompassing development, procurement, modification and maintenance activities.

The All Domain Common Platform (ADCP) is an extensible cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting medium built to deliver highly resilient Command and Control (C2) mission applications and data to Airmen deployed around the world. The ADCP is a warfighting capability that enables any organization to build, deploy and monitor mission applications to the end state of production. Having applications operational in various environments ensures data is accessible as it is needed across Air Force mission sets. The ADCP's collection of technologies, services and tooling enables warfighter outcomes by abstracting away technical complexity and enabling the deployment of products onto its infrastructure.

ADCP is part of the overarching Air Force Life Cycle Management Center's Detachment-12 (Kessel Run) portfolio and this foundational system is the primary path to production for modernized C2 systems. ADCP is in collaboration with all primary customers of the platform and environment to include Air Operations Center (AOC), Intelligence Programs, the AF Rapid Capabilities Office (AFRCO), and others. ADCP is USAF's contributing platform to Joint All-Domain Command and Control (JADC2) for user-facing C2 capability with the resiliency requirements met through the escalating phases of warfare.

Funding directly supports design, development, enablement services, security, continuous authority to operate (cATO), engineering, network and platform architecture, prototyping efforts to increase platform, communications and network capabilities, data science, data engineering, reinforcement learning, machine learning, artificial intelligence, product management and program management to build functionality and scalability of the platform. ADCP uses Agile methodologies and DevSecOps practices to deliver improved capabilities at scale, in support of mission requirements. ADCP is an evolving, delivered and managed product distributed to customers ensuring the requisite tools and services needed to securely build, deploy and sustain successful C2 mission applications.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force	Date: April 2022
--	-------------------------

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0308606F / <i>All Domain Common Platform (ADCP) - Software Pilot Program</i>
---	---

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In PY 0.000M was expended for civilian pay expenses in this program element, and in CY 0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 8, Software and Digital Technology Pilot Program because this budget activity includes funding provided for expenses necessary for agile development, test and evaluation, procurement, production and modification, and the operation and maintenance of these programs.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	190.112	0.000	190.112
Total Adjustments	0.000	0.000	190.112	0.000	190.112
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	190.112	0.000	190.112

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: ADCP Development	-	0.000	75.763
Description: Funding provided will support research and development efforts designed to enhance the scalability, performance, and reliability of the platform. These requirements will include design, enablement services, security, services necessary for continuous authority to operate (CATO), engineering, network and platform architecture, reliability testing, prototyping efforts to increase platform, communications, and network capabilities, data science, data engineering, reinforcement learning, machine learning, artificial intelligence, product and program management services.			
FY 2022 Plans: See PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development			
FY 2023 Plans: - Complete construction of resilient production Kubernetes based platform on Unclass, SIPR and JWICS and migrate existing customers - Continue to deliver observability tooling in support of application customers as well as platform			

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs</i>		R-1 Program Element (Number/Name) PE 0308606F / <i>All Domain Common Platform (ADCP) - Software Pilot Program</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<ul style="list-style-type: none"> - Continue to support Continuous Integration/Continuous Delivery (CI/CD) pipelines - Continue migration to more containerized automated delivery - Continue to automate delivery and deployment operations - Continue to improve C2 mission application resilience and reliability and decrease lead time for new capability delivery <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding was increased due to transfer from PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development.</p>				
<p>Title: ADCP Fielding</p> <p>Description: Provides the hardware, bench stock, software, technical documents, fielding support, and Capital Equipment Replacement required to ensure ADCP on-premise suites are operable and compliant. Funding will also be used to establish additional nodes to increase ADCP's functionality, redundancy, and resiliency.</p> <p>FY 2022 Plans: See PE 0303248F, All Domain Common Platform (ADCP), Line Item 833140, Strategic Command and Control</p> <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> - Conduct Capital Equipment Replacement of ADCP on-premises hardware suites to support its heightened security posture - Procure hardware and bench stock to assist in the care and upkeep of the hardware suites and network components at each location where on-premises hardware is operational - Establish a new on-premise hardware suite (notionally West Coast) <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding was increased due to transfer from PE 0303248F, All Domain Common Platform (ADCP), Line Item 833140, Strategic Command and Control.</p>		-	0.000	30.738
<p>Title: ADCP Sustainment</p> <p>Description: Provides resources for ADCP to sustain its multi-region cloud based Infrastructure and Platform as a Service (IaaS/PaaS) hosting medium. This funding directly supports business/software tools, licenses, cloud services at various classification levels, enablement services, management services to deliver an environment to support agile development (DevSecOps) and CI/CD services, security, continuous authority to operate (cATO), software engineering, site reliability, network and platform architecture, help desk support, communications and network capabilities, data science, data engineering, reinforcement learning, machine learning, artificial intelligence, warehouse services, product management and program management to build and maintain the functionality and scalability of the platform.</p>		-	0.000	83.611

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force		Date: April 2022		
Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 8: Software and Digital Technology Pilot Programs</i>		R-1 Program Element (Number/Name) PE 0308606F / <i>All Domain Common Platform (ADCP) - Software Pilot Program</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>FY 2022 Plans: See OMAF Operating Forces, Activity Group, Combat Related Operations, Sub-Activity Group 12A, Global C3I & Early Warning</p> <p>FY 2023 Plans: <ul style="list-style-type: none"> - Maintain multi-region, multi-classification level cloud based IaaS and PaaS hosting medium required to securely build, deploy and sustain successful C2 and other mission applications - Continue to provide personnel, business/software tools, licenses, and management services required to maintain a software environment that supports DevSecOps and CI/CD of software - Maintain legacy IaaS hardware and software as applications migrate to modernized cloud environment - Expand help desk services to enable developers to utilize Kessel Run tools and services more efficiently and effectively </p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding was increased due to transfer from OMAF Operating Forces, Activity Group, Combat Related Operations, Sub-Activity Group 12A, Global C3I & Early Warning.</p>				
Accomplishments/Planned Programs Subtotals		-	0.000	190.112
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
E. Acquisition Strategy				
<p>The ADCP program is part of the Investment Master List (IML) and is operating as an approved Software Acquisition Pathway (SWP). The acquisition strategy is to continue efforts that are currently funded through PE 33248F. ADCP will also use Other Transaction Authority (OTA) to continue commercial best practices for software development and to continue scaling of the modern Infrastructure as a Service/Platform as a Service (IaaS/PaaS) solution. Activities are also accomplished via Military Interdepartmental Purchase Requests (MIPR). Additionally, significant technical expertise will be sought after via modular contracting approach and provided by Government Agencies, DoD Laboratory, Federally Funded Research and Development Centers (FFRDC), Academia, and Engineering & Professional Acquisition Support Services contractors as well as commercial industry partners.</p>				

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308606F / All Domain Common Platform (ADCP) - Software Pilot Program	Project (Number/Name) 682015 / All Domain Common Platform
--	--	---

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ADCP Development	C/Various	Various : Multiple	-	-		-		50.086	Dec 2022	-		50.086	Continuing	Continuing	-
ADCP Fielding	C/Various	Various : Multiple	-	-		-		30.738	Dec 2022	-		30.738	Continuing	Continuing	-
ADCP Sustainment	C/Various	Various : Multiple	-	-		-		65.063	Dec 2022	-		65.063	Continuing	Continuing	-
Subtotal			-	-		-		145.887		-		145.887	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ADCP Direct Mission Support	C/TBD	Various : Various	-	-		-		20.617	Dec 2022	-		20.617	Continuing	Continuing	-
ADCP Civilian Direct Cite Authority for Product Development	Allot	AFLCMC/FZA : TBD	-	-		-		11.122	Oct 2022	-		11.122	Continuing	Continuing	-
Subtotal			-	-		-		31.739		-		31.739	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
ADCP Engineering Services	Various	Various : Various	-	-		-		4.077	Oct 2022	-		4.077	Continuing	Continuing	-
ADCP Program Support	C/Various	Various : Various	-	-		-		8.409	Dec 2022	-		8.409	Continuing	Continuing	-
Subtotal			-	-		-		12.486		-		12.486	Continuing	Continuing	N/A

			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-	-	190.112	-	190.112	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600 / 8	R-1 Program Element (Number/Name) PE 0308606F / <i>All Domain Common Platform (ADCP) - Software Pilot Program</i>	Project (Number/Name) 682015 / <i>All Domain Common Platform</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>All Domain Common Platform</i>				
All Domain Common Platform	1	2023	4	2027

Note

See PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development for prior years development events.