

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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303248F / <i>All Domain Common Platform</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
Total Program Element	-	0.000	64.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
675218: <i>Applications Development</i>	-	0.000	64.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

Note

In FY 2023, PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development, was transferred to PE 0308606F, All Domain Common Platform (ADCP), Project 682015, in order to participate in DoD's Budget Activity 08 for Software and Digital Technology Pilot Programs.

A. Mission Description and Budget Item Justification

The All Domain Common Platform (ADCP) is an extensible cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient 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.

This program is part of the overarching Kessel Run portfolio and this foundational Kessel Run 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, Intelligence Programs, the AF Rapid Capabilities Office, and others. This program is USAF's contributing platform to 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, engineering, network and platform architecture, prototyping efforts to increase platform, communications and network capabilities, data science, reinforcement learning, machine learning, artificial intelligence, product management and program management to build functionality and scalability of the platform. ADCP develops using agile methodologies and DevSecOps practices to deliver improved capabilities at scale, in support of mission requirements. The ADCP is an evolving, delivered and managed product delivered to customers ensuring the requisite tools and services needed to securely build, deploy and sustain successful C2 mission applications.

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 10.395M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303248F / <i>All Domain Common Platform</i>
--	---

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	64.000	0.000	0.000	0.000
Current President's Budget	0.000	64.000	0.000	0.000	0.000
Total Adjustments	0.000	0.000	0.000	0.000	0.000
• 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	0.000	0.000	0.000

Change Summary Explanation

NA

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0303248F / All Domain Common Platform				Project (Number/Name) 675218 / Applications Development			
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
675218: Applications Development	-	0.000	64.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2023, PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development, was transferred to PE 0308606F, All Domain Common Platform (ADCP), Project 682015, in order to participate in DoD's Budget Activity 08 for Software and Digital Technology Pilot Programs.

A. Mission Description and Budget Item Justification

The All Domain Common Platform (ADCP) is an extensible cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient 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.

This program is part of the overarching Kessel Run portfolio and this foundational Kessel Run 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, Intelligence Programs, the AF Rapid Capabilities Office, and others. This program is USAF's contributing platform to 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, engineering, network and platform architecture, prototyping efforts to increase platform, communications and network capabilities, data science, reinforcement learning, machine learning, artificial intelligence, product management and program management to build functionality and scalability of the platform. ADCP develops using agile methodologies and DevSecOps practices to deliver improved capabilities at scale, in support of mission requirements. The ADCP is an evolving, delivered and managed product delivered to customers ensuring the requisite tools and services needed to securely build, deploy and sustain successful C2 mission applications.

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 \$10.395M is forecasted for civilian pay expenses in this program element.

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

	FY 2021	FY 2022	FY 2023
Title: Applications Development	0.000	64.000	0.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303248F / All Domain Common Platform	Project (Number/Name) 675218 / Applications Development

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Description: All Domain Common Platform</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> - Began construction of resilient production Kubernetes based platform on Unclass, SIPR and JWICS and migrate existing customers - Delivered observability tooling in support of application customers as well as platform - Supported Continuous Integration/Continuous Delivery (CI/CD) pipelines - Migrated to more containerized automated delivery - Automated delivery and deployment operations - Improved C2 mission application resilience and reliability and decrease lead time for new capability delivery <p>FY 2023 Plans:</p> <ul style="list-style-type: none"> -See PE 0308606F, All Domain Common Platform (ADCP), Project 682015. <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p> <p>Funding decreased due to transfer to PE 0308606F, ADCP, Project Number 682015.</p>			
Accomplishments/Planned Programs Subtotals	0.000	64.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPAF 03 833140: <i>Strategic Command And Control</i>	0.000	3.541	0.000	-	0.000	0.000	0.000	0.000	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

ADCP program is part of the Investment Master List (IML) and is operating as an approved Software Acquisition Pathway (SWAP). The acquisition strategy is to capitalize on market research, continue efforts that are currently funded through PEs 27410F, 27431F, 27438F, and 27601F, transition infrastructure support to a singular entity while maintaining diversity amongst Cloud Services and Engineering Services. 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.

UNCLASSIFIED

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303248F / All Domain Common Platform	Project (Number/Name) 675218 / Applications Development
--	--	---

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	Various	Various : TBD	-	0.000		40.658	Dec 2021	-		-		-	0.000	40.658	-
ADCP Data Science	C/Various	Various : TBD	-	0.000		7.064	Apr 2022	-		-		-	0.000	7.064	-
Subtotal			-	0.000		47.722		-		-		-	0.000	47.722	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			
Not specified.	C/CPFF	Various : TBD	-	0.000		5.812	Dec 2021	-		-		-	0.000	5.812	-
Subtotal			-	0.000		5.812		-		-		-	0.000	5.812	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 : TBD	-	0.000		3.565	Oct 2021	-		-		-	0.000	3.565	-
ADCP Program Support	C/Various	Various : TBD	-	0.000		6.901	Dec 2021	-		-		-	0.000	6.901	-
Subtotal			-	0.000		10.466		-		-		-	0.000	10.466	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		-	0.000	64.000	-	-	-	0.000	64.000	N/A

Remarks
In FY 2023, ADCP funding was transferred to PE 0308606F, All Domain Common Platform (ADCP), Project 682015.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303248F / All Domain Common Platform	Project (Number/Name) 675218 / Applications Development

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

AF Command and Control (C2) Common Platform	
All Domain Common Platform	██████████

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303248F / All Domain Common Platform	Project (Number/Name) 675218 / Applications Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AF Command and Control (C2) Common Platform				
All Domain Common Platform	1	2022	4	2022

Note
 See PE 0308606F, All Domain Common Platform (ADCP), Project 682015 for continued development events.
 See PE 0207410F, Air & Space Operations Center (AOC), Project Number 674596, AOC WS Modifications for prior years development events.