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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

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>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	64.000	0.000	64.000	-	-	-	-	-	-
675218: <i>Applications Development</i>	-	0.000	0.000	64.000	0.000	64.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 This is not a new start. In FY 2022, PE 0303248F, All Domain Common Platform (ADCP), Project 675218, Applications Development, the cloud hosting platform efforts were transferred from PE 0207410F, Air & Space Operations Center (AOC), Project 674596, AOC WS Modifications, in order to support enterprise level activities.

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, 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 0605831F. In FY20 \$0.000M was expended for civilian pay expenses in this program element, and in FY21 \$0.000M 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.

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B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	64.000	0.000	64.000
Total Adjustments	0.000	0.000	64.000	0.000	64.000
• 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	64.000	0.000	64.000

Change Summary Explanation

FY 2022: Funding added due to transfer of efforts from PE 0207410F, AOC, and Air Force Corporate Structure support of enterprise level platform activities.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Applications Development	0.000	0.000	64.000	0.000	64.000
Description: All Domain Common Platform					
FY 2021 Plans: See PE 0207410F, Air & Space Operations Center (AOC), Project Number 674596, AOC WS Modifications.					
FY 2022 Base Plans: - Build resilient production Kubernetes based platform on Unclass, SIPR and JWICS and migrate existing customers - Deliver observability tooling in support of application customers as well as platform - Support Continuous Integration/Continuous Delivery (CI/CD) pipelines - Migrate to more containerized automated delivery - Automate delivery and deployment operations - Improve C2 mission application resilience and reliability and decrease lead time for new capability delivery					
FY 2022 OCO Plans:					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
N/A					
FY 2021 to FY 2022 Increase/Decrease Statement:					
Funding increased due to transfer of efforts from RDT&E, AF, PE 0207410F, Air & Space Operations Center (AOC), Project Number 674596, AOC WS Modifications.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	64.000	0.000	64.000

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF 03 833140: <i>Strategic Command And Control</i>	0.000	0.000	3.541	0.000	3.541	-	-	-	-	-	-

Remarks

E. Acquisition Strategy

Currently, ADCP program is part of the Investment Master List (IML) and will transition to the 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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
3600 / 7				PE 0303248F / All Domain Common Platform				675218 / Applications Development							
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ADCP Development	Various	Various : TBD	-	0.000		0.000		40.658	Dec 2021	0.000		40.658	-	-	-
ADCP Data Science	C/Various	Various : TBD	-	0.000		0.000		7.064	Apr 2022	0.000		7.064	-	-	-
Subtotal			-	0.000		0.000		47.722		0.000		47.722	-	-	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ADCP Direct Mission Support	C/CPFF	Various : TBD	-	0.000		0.000		5.812	Dec 2021	0.000		5.812	-	-	-
Subtotal			-	0.000		0.000		5.812		0.000		5.812	-	-	N/A
Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ADCP Engineering Services	Various	Various : TBD	-	0.000		0.000		3.565	Oct 2021	-		3.565	-	-	-
ADCP Program Support	C/Various	Various : TBD	-	0.000		0.000		6.901	Dec 2021	-		6.901	-	-	-
Subtotal			-	0.000		0.000		10.466		-		10.466	-	-	N/A
Project Cost Totals			-	0.000		0.000		64.000		0.000		64.000	-	-	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force		Date: May 2021
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0303248F / All Domain Common Platform	Project (Number/Name) 675218 / Applications Development

FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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	██████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
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 0207410F, Air & Space Operations Center (AOC), Project Number 674596, AOC WS Modifications for prior years development events.