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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 0708611F / <i>Support Systems Development</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	-	0.522	11.816	0.000	0.000	0.000	-	-	-	-	-	-
675042: <i>Log Application Logistics Integration (LALI)</i>	-	0.522	11.816	0.000	0.000	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Logistics, Installations and Mission Support - Enterprise View (LIMS-EV) is the A4 reporting and analytics gateway providing a single "source of truth" via aggregated logistics data from numerous authoritative logistics systems using a wide range of analytic tools from streamlined, comprehensive dashboards to intricate, tailored ADHOC reporting for multiple logistics mission areas including weapon systems, engines, support equipment, financials, maintenance, repair network, vehicles, and mobile. LIMS-EV delivers 20+ Business Intelligence capabilities to various logistics business areas by integrating data from 70+ systems with world-wide access by 33K + users including decision makers at all AF levels (Flight, Squadron, Group, Wing, MAJCOM, COCOM).

LIMS-EV User Group has submitted their highest priority requirements for post FY20 development and includes the following projects:

- DLA Interactive Problem Item Datasheet (iPID)
- Minimum Essential Level Recall Assistance Tool (MELRAT) 2.0
- Vehicle View CR/DR
- PRIBUY Capability Migration
- Support Equipment View 2.0
- Engine Oil Analysis Program
- Engine Health Management
- Data Capture and Storage
- Defense Property Accountability System (DPAS) Accountability Data Integration
- Support Equipment View Expansion
- Program Objective Memorandum (POM) View
- Weapon System Sustainment 2.0

The User Group will provide a recommended "1-N" ranking for a functional prioritization list. The LIMS-EV FMO will work with BLADE and functional community to determine a dev/mod execution plan through consideration of a number of factors including alternative solution availability (BLADE, BI Solution, etc.), project feasibility (ie. data availability), resource availability, functional sponsorship, and A4 leadership priorities.

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Future LIMS-EV modernization include federating/integrating LIMS-EV with the A4 enterprise Basing and Logistics Analytics Data Environment(BLADE), which will allow expansion of LOGCOP capability using LIMS-EV data. Additionally, refactoring LIMS-EV using enterprise technical solutions will increase scalability and portability of LIMS-EV views by reducing reliance on legacy software applications which currently require separate licensing which increases cost and limits portability. Asset Lifecycle Management Automation, Improved Supply Chain Visibility and End-to-End Maintenance Lifecycle Management are planned to deliver eight new capabilities to modernize six current views which targets 80% of current LIMS-EV users.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Logistics, Installations and Mission Support 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 requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.539	11.838	13.725	0.000	13.725
Current President's Budget	0.522	11.816	0.000	0.000	0.000
Total Adjustments	-0.017	-0.022	-13.725	0.000	-13.725
• 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	-0.017	-0.022			
• Other Adjustments	0.000	0.000	-13.725	0.000	-13.725

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Title: LIMS-EV Version 3.0 Product Development	0.522	11.816	-
Description: Expanded, Scalable, Portable, Enterprise Logistics Data Accessibility			
FY 2021 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>Eight Major Enhancements and 23 Minor change requests for the Vehicle Management, Supply, Maintenance, Avionics, Propulsion, Repair Network, Support Equipment and Communication Security (COMSEC) communities that build on prior development to enable advanced Predictive Enterprise Logistics Reporting and Analytics in the following areas:</p> <ul style="list-style-type: none"> - Will begin to implement a modeling & simulation capability - Will begin to perform Big data analytics - Will begin actuarial capability and reliability analysis - Will begin to incorporate operational data, such as flight profile data to support deep performance analysis of weapon system components and supporting predictive modeling - Will begin to configure and simulate different logistical outcomes based on known factors - Provide greater control to functional representatives to transform data by revising reference tables and business rules without developer intervention - Provide greater functional self service provisioning capability - Implement Mobile Capability to support initiatives such as Flight line of the Future - Enable federation of data across multi-security and functional domains. - Expand ADHOC reporting capability without needing special data universes - Modernize expanded visualization capability, with greater consistency across application views. - Expand access to new data feeds as well as unstructured and semi-structured data - Provide foundation infrastructure for Logistics Data Environment - Improve Forecasting Capability - Forecast future health of weapon system and equipment with constraint analysis - Improve trend analysis - Implement Statistical Process Control with anomaly detection - Determine root cause and fault analysis - Project future data with high degree of confidence - Display OSD Re-phasing and Program reduction limits ability for new enhancements <p>FY 2021 to FY 2022 Increase/Decrease Statement: LIMS-EV Version 3.0 will complete product development activities in FY 2021 and begin using O&M funding in FY 2022.</p>				
Accomplishments/Planned Programs Subtotals		0.522	11.816	-
D. Other Program Funding Summary (\$ in Millions)				
N/A				

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D. Other Program Funding Summary (\$ in Millions)

Remarks

LIMS-EV Version 3.0 program will complete product development activities in FY 2021 and begin using O&M funding in FY 2022.

E. Acquisition Strategy

LIMS-EV will utilize services provided by the Air Force Cloud One Government Cloud Framework. AFLCMC/HNII Data Services Program Management Office (PMO), as LIMS-EV Program Manager, is responsible to competitively acquire additional LIMS-EV capabilities using a variety of fixed price, labor hour, time and material, and cost plus contracts within the Cloud One Framework.

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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 0708611F / <i>Support Systems Development</i>	Project (Number/Name) 675042 / <i>Log Application Logistics Integration (LALI)</i>

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

<i>Support Systems Developments PE 0708611F</i>	
LIMS-EV Version 3.0	
LIMS-EV alignment with A4 enterprise data environment (BLADE)	
LIMS-EV native cloud solution integration	
Asset Lifecycle Management Automation	
Improved Supply Chain Visibility	
Machine Learning Integration	
End-to-End Maintenance Lifecycle Management	

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Air Force		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Support Systems Developments PE 0708611F</i>				
LIMS-EV Version 3.0	3	2020	4	2021
LIMS-EV alignment with A4 enterprise data environment (BLADE)	4	2020	4	2021
LIMS-EV native cloud solution integration	2	2021	4	2021
Asset Lifecycle Management Automation	2	2021	4	2021
Improved Supply Chain Visibility	4	2020	4	2021
Machine Learning Integration	2	2021	4	2021
End-to-End Maintenance Lifecycle Management	3	2020	4	2021