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**CLEARED**  
**For Open Publication**

Sep 27, 2024

Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

# Modernized Selected Acquisition Report (MSAR) Paladin Integrated Management (PIM)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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**(U) Common DoD Abbreviations**

\$B	Billions of Dollars
\$K	Thousands of Dollars
\$M	Millions of Dollars
ACAT	Acquisition Category
Acq O&M	Acquisition-Related Operations and Maintenance
ADM	Acquisition Decision Memorandum
APA	Additional Performance Attribute
APB	Acquisition Program Baseline
APPN	Appropriation
APUC	Average Procurement Unit Cost
BA	Budget Authority or Budget Activity
Blk	Block
BY	Base Year
CAE	Component Acquisition Executive
CAPE	Cost Assessment and Program Evaluation
CARD	Cost Analysis Requirements Description
CCE	Component Cost Estimate
CCP	Component Cost Position
CDD	Capability Development Document
CLIN	Contract Line Item Number
CPD	Capability Production Document
CY	Calendar Year or Constant Year
DAB	Defense Acquisition Board
DAE	Defense Acquisition Executive
DAES	Defense Acquisition Executive Summary
DAVE	Defense Acquisition Visibility Environment
DoD	Department of Defense
DSN	Defense Switched Network
EMD	Engineering and Manufacturing Development
EVM	Earned Value Management
FD	Full Deployment
FDD	Full-Deployment Decision
FMS	Foreign Military Sales
FOC	Full Operational Capability
FRP	Full-Rate Production
FY	Fiscal Year
FYDP	Future Years Defense Program
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
Inc	Increment
IOC	Initial Operational Capability
IT	Information Technology
JROC	Joint Requirements Oversight Council
KPP	Key Performance Parameter
KSA	Key System Attribute

LRIP	Low-Rate Initial Production
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MILCON	Military Construction
N/A	Not Applicable
O	Objective
O&M	Operations and Maintenance
O&S	Operating and Support
ORD	Operational Requirements Document
OSD	Office of the Secretary of Defense
PAUC	Program Acquisition Unit Cost
PB	President's Budget
PE	Program Element
PEO	Program Executive Officer
PM	Program Manager
POE	Program Office Estimate
R&MF	Revolving and Management Funds
RDT&E	Research, Development, Test, and Evaluation
SAR	Selected Acquisition Report
SCP	Service Cost Position
T	Threshold
TBD	To Be Determined
TY	Then Year
U.S.	United States
U.S.C	United States Code
UCR	Unit Cost Reporting
USD(A&S)	Under Secretary of Defense (Acquisition and Sustainment)

**(U) Program Description****Full Name**

Paladin Integrated Management

**Short Name**

PIM

**PNO**

466

**Milestone Decision Authority**

Component Acquisition Executive

**Lead Component**

Department of the Army

**Program Executive Office**

PEO Ground Combat Systems (GCS)

**Joint Program**

No

**Acquisition Type**

Major Defense Acquisition Program

**Adaptive Acquisition Pathway**

Major Capability Acquisition

**Acquired Systems**

PIM

**Acquisition Category**

IC

**Acquisition Status**

Active Acquisition

**Mission**

Intentionally left blank

**(U) Responsible Office****Program Executive Officer**

PEO Ground Combat Systems (GCS)

BG Glenn Dean

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**Program Manager**

Paladin Integrated Management PMO

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## (U) Executive Summary

### Program Highlights Since Last Report

PIM is a post-Milestone C (MS C) program in the Production and Deployment phase. The PIM program achieved MS C on October 18, 2013 permitting the program to begin LRIP on October 21, 2013. The program received an ADM dated September 11, 2015 delegating the M109A7 Family of Vehicles (FoV) from OSD to the Secretary of the Army. This changed the program designation from ACAT 1D to ACAT 1C. The program completed Operational Testing in March 2018 and Army Test and Evaluation Command's final report supports a conditional materiel release and the initiation of fielding for both the M109A7 and M992A3. First Unit Equipped (FUE) was achieved in August 2018, with IOC declared in October 2018. The Army Acquisition Executive (AAE) signed an ADM in December 2019 extending LRIP to complete the procurement of 60 vehicle sets. Full Rate Production was approved February 5, 2020. As of December 31, 2023, 9 units and 1 Army Pre-positioned Stock (APS) set have been fielded. Program total RDTE and Procurement quantities delivered are 250 of 691 sets; making the program 36.2% delivered. Program expenditures to date are \$4,283M of \$11,665M; making the program 36.7% expended.

### (U) History of Significant Developments Since Program Inception

Date	Description
February 2020	Army Acquisition Executive signed Acquisition Decision Memorandum (ADM) approving Full Rate Production (FRP) and procurement to the Army Acquisition Objective (AAO).
December 2019	Army Acquisition Executive (AAE) signed ADM extending Low Rate Initial Production (LRIP); contract option exercised for 48 additional weapon systems.
October 2018	Achieved Initial Operational Capability.
September 2018	AAE signed ADM extending LRIP to procure up to 60 additional weapon systems.
March 2018	Completed Initial Operational Testing.
April 2017	Army Acquisition Executive signed ADM extending LRIP; authorizing 48 additional weapon systems.
September 2015	Program delegated from OSD to Secretary of Army and designated ACAT IC.
October 2013	Achieved Milestone C, LRIP contract awarded.
October 2012	Completed Limited User Testing.
June 2011	PIM designated ACAT ID.
June 2007	Start of the M109A7 Family of Vehicles (PIM) acquisition program.

**(U) Schedule****(U) Schedule Events**

Events		APB Change 2 (Current) 3/30/2020 Objective / Threshold		Current Estimate 12/31/2023	Actual
Developmental Test Start	DT&E	May 2011	May 2011	-	2 May 2011
Milestone C	MS C	Oct 2013	Oct 2013	-	18 Oct 2013
First Production Delivery	First Asset Delivery	Mar 2015	Mar 2015	-	31 Mar 2015
Operational Test Start	Other	Oct 2016	Oct 2016	-	17 Oct 2016
IOC	IOC	Oct 2018	Oct 2018	-	3 Oct 2018
First Unit Equipped	Other	Oct 2018	Oct 2018	-	25 Oct 2018
Full Rate Production	FRP Decision	Feb 2020	Feb 2020	-	24 Jan 2020
FOC	FOC	Sept 2033	Mar 2034	Mar 2034	-

**Notes**

None

**Schedule Baseline Deviation Explanation**

None

**(U) Current Significant Schedule Risks and Risks Identified at Milestones/Decisions**

Event	Date	Description
Current	12/31/2023	Electronic components continue to be the production pacing item due to supply challenges.
Current	12/31/2023	The PIM final assembly anticipates a move from BAE-York to BAE-Anniston which could cause production and/or fielding delays despite mitigation efforts.
FRP	2/5/2020	If production inefficiencies are not addressed, then future production costs may be higher.
FRP	2/5/2020	Demonstration of production rate capability, while maintaining quality, to support fielding schedule.
MS C	10/21/2013	Industrial base risk of meeting Engine Minimum Sustainment Rate.



(U) Performance

(U) Performance Attributes

KPP 1: Net-Ready: The capability, system and/or service must support Net-Centric military operations by providing sufficient SWaP capacity to integrate information and communication systems to ensure C2 and SA. The capability, system and/or service must b		KPP
Current Estimate 12/31/2023	REDACTED	
Demonstrated Performance -	REDACTED	
APB Change 2 (Current)	Objective	REDACTED
3/30/2020	Threshold	REDACTED

<b>KPP 6: Howitzer Reliability</b>		<b>KPP</b>
Current Estimate 12/31/2023		REDACTED
Demonstrated Performance -		REDACTED
APB Change 2 (Current) 3/30/2020	Objective	REDACTED
	Threshold	REDACTED
<b>KPP 5: Range</b>		<b>KPP</b>
Current Estimate 12/31/2023		REDACTED
Demonstrated Performance -		REDACTED
APB Change 2 (Current)  3/30/2020	Objective	REDACTED
	Threshold	REDACTED

<b>KPP 4: Digital Fire Control System (DFCS)</b>		<b>KPP</b>
Current Estimate 12/31/2023		REDACTED
Demonstrated Performance -		REDACTED
APB Change 2 (Current) 3/30/2020	Objective	REDACTED
	Threshold	REDACTED
<b>KPP 7: Howitzer Availability (Materiel Availability / Operational Availability)</b>		<b>KPP</b>
Current Estimate 12/31/2023		REDACTED
Demonstrated Performance -		REDACTED
APB Change 2 (Current) 3/30/2020	Objective	REDACTED
	Threshold	REDACTED
<b>KPP 8: Carrier Ammunition Tracked Reliability</b>		<b>KPP</b>
Current Estimate 12/31/2023		REDACTED
Demonstrated Performance -		REDACTED
APB Change 2 (Current) 3/30/2020	Objective	REDACTED
	Threshold	REDACTED
<b>KPP 9: Carrier Ammunition Tracked Availability (Materiel Availability / Operational Availability)</b>		<b>KPP</b>
Current Estimate 12/31/2023		REDACTED
Demonstrated Performance -		REDACTED

APB Change 2 (Current) 3/30/2020	Objective	REDACTED
	Threshold	REDACTED

**(U) Requirement Source:**

Sponsor(s): None

1. Document Type Not Provided

Notes: CPD v5.1 approved November 30, 2016.

**Notes**

All 29 Technical Performance Measures have been met with KPP6 and KPP7 being closed in accordance with ATEC Memo "Closure of Reliability Condition for the M109A7 Self-Propelled Howitzer" dated 13 April 2020.

**Performance Deviation Explanation**

None

**(U) Acquisition Budget Estimate**

**(U) Total Acquisition Estimates and Quantities**

Category (\$M) Base Year: 2013	APB Change 2 (Current) 3/30/2020 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
	RDT&E	1,075.1	1,182.6	1,075.3
Procurement	7,500.6	8,250.7	7,912.5	10,551.8
MILCON	0.0	0.0	-	-
O&M	30.9	34.0	5.7	6.6
R&MF	-	-	-	-
Total Acquisition	8,606.6	-	8,993.5	11,644.0
Program Acquisition Unit Cost	12.455	13.701	13.015	16.851
Average Procurement Unit Cost	10.886	11.975	11.484	15.315
Program End-Item Quantity				
Development	2		2	
Procurement	689		689	
O&M-Acquired	-		-	

**Budget Notes**

None

**Quantity Notes**

None

**Cost Baseline Deviation Explanation**

None

**(U) Risk and Sensitivity Analysis**

Current Procurement Estimate Risks (12/31/2023)	
1	The M109A7 FoV current estimate, based on 689 weapon systems, reflects various time-phasing and budget adjustments; PAUC and APUC remain within 5% and 6%, respectively, of the Current UCR Baseline.
Current Baseline Risks (3/30/2020)	
None	
Original Baseline Risks (3/30/2012)	
Original Baseline APUC based on quantity of 580 PIM weapon systems. Varying quantity will likely cause fluctuations in APUC.	



**(U) Unit Costs****(U) Current Estimate Compared with Current Baseline**

Category (CY\$M) Base Year: 2013	Current Baseline 03/30/2020	Current Estimate PB 2025	% Change
<b>Program Acquisition Unit Cost</b>			
Acquisition Cost	8,606.6	8,993.5	
Program Quantity	691	691	
PAUC	12.455	13.015	4.50%
<b>Average Procurement Unit Cost</b>			
Procurement Cost	7,500.6	7,912.5	
Procurement Quantity	689	689	
APUC	10.886	11.484	5.49%

**(U) Current Estimate Compared with Original Baseline**

Category (CY\$M) Base Year: 2011	Original Baseline 03/30/2012	Current Estimate PB 2025	% Change
<b>Program Acquisition Unit Cost</b>			
Acquisition Cost	6,641.0	8,704.3	
Program Quantity	582	691	
PAUC	11.411	12.597	10.39%
<b>Average Procurement Unit Cost</b>			
Procurement Cost	5,640.1	7,658.1	
Procurement Quantity	580	689	
APUC	9.724	11.115	14.30%

The Current Estimate's constant-year dollars have been converted from Base Year 2013 to Base Year 2011 using the National Defense Budget Estimates for FY 2011 (Green Book).

**Notes**

None

**(U) Life-Cycle Costs**

**(U) Operating and Support and Disposal Cost Estimates Compared with Baseline**

Category (\$M) Base Year: 2013	APB Change 2 (Current) 3/30/2020 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
	Total O&S	19,006.0	20,906.6	15,712.5
Total Disposal	-	-	12.1	29.3

**(U) Current Cost Estimate Sources**

**Operating and Support Cost**

Type: Program Office Estimate

Approved by: PEO, February 13, 2023

Note: Operating and Support Cost Estimate source: Program Office Estimate dated February 13, 2023.

**Disposal/Demilitarization Cost**

Type: No estimate. Not Applicable

**Operating and Support Baseline Deviation Explanation**

None

**Cost Notes**

O&S Current Then Year Cost Estimate is \$28,678.2M (could not save update in DAVE).

**(U) Operating and Support Variance with Prior Estimate**

(CY\$M) Base Year: 2013	Estimate	
Prior Estimate (12/31/2022)	16,008.6	
Current Estimate	15,712.5	
<b>Category</b>		
	<b>Variance</b>	<b>Explanation</b>
Unit-Level Manpower	-	
Unit Operations	22.2	Revised estimate due primarily to higher fuel costs.
Maintenance	-241.4	Revised estimate due primarily to lower system specific support costs.
Sustaining Support	-36.5	Revised estimate due primarily to lower maintainer labor costs.



(CY\$M) Base Year: 2013		Estimate
Continuing System Improvements		-40.4
Other		-
Not Categorized		0.0

**(U) Operating and Support Cost Element Structure Estimates by Acquired System**

(CY\$M) Base Year: 2013							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
PIM	8,889.6	1,495.1	2,193.9	2,121.4	1,012.5	-	15,712.5
Program	8,889.6	1,495.1	2,193.9	2,121.4	1,012.5	-	15,712.5

**(U) Annual Operating and Support Costs per Unit Compared with Antecedent System**

(CY\$M) Base Year: 2013							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
PIM	0.5	0.1	0.2	0.1	0.1	-	0.9

**(U) Operating and Support Cost Estimate Assumptions**

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
PIM	689	26.0	1 M109A7 Self-Propelled Howitzer (SPH) and 1 M992A3 Carrier, Ammunition Tracked (CAT)	2018 - 2060

**Additional O&S Estimate Assumptions**

None

**Antecedent Estimate Assumptions**

None

**O&S Annual Cost Calculation Memo**

None



**(U) Performing Activities and Contracts**

**(U) External Government Activities**

Activity Title	Government Entity	Phase
PIM FRP	Anniston Army Depot	Production

**(U) Activity Identification**

Activity Title: PIM FRP Supported Phase: Production  
 CAGE: 1VJU9 - Anniston Army Depot Work Start Date: April 3, 2017  
 City, State/Province: Anniston, AL  
 Notes: None

**(U) Contracts and Efforts**

Contract Title	Contract Number / Effort	Contractor	Phase
FY17-FY20 M109A7 M992A3 Production	W56HZV-17-C-0001	BAE Systems Land & Armaments L.P.	Production

**(U) Contract and Effort Identification, Price, Quantity and Performance**

Contract Number: W56HZV-17-C-0001 Order Number: -  
 Contract Title: FY17-FY20 M109A7 M992A3 Production Strategy: -  
 CAGE: 06085 - BAE Systems Land & Armaments L.P. Contracting Office: -  
 City, State/Province: York, PA  
 Effort Number: - Supported Phase: Production  
 Type: Fixed-Price Incentive (Firm Target) Award Date: -  
 Latest Modification Date: - Definitization Date: December 21, 2017  
 Latest Modification No.: - Work Start Date: -  
 Technical Data Rights: -  
 Notes: None

Initial Price (TY\$M) Target / Ceiling	Current Price (TY\$M) Target / Ceiling	Estimate at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity
557.3 585.4	2,174.7 1,771.4	1,993.0 1,993.7	96	487	334

Work Completed (%): 67.69%  
 Cost Variance (TY\$M): -81.7  
 Schedule Variance (TY\$M): -62.8

**Factors Contributing to Cost Variance and Projected Effects on Program Costs**

Cost and Schedule Variance reporting is not required on this (FPIF) contract.

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to Award of FY 2019 Production December 2019 (planned 48 weapon systems) and FY 2020 Production March 2020 (planned 48 weapon systems).

The Target Price includes data for all exercised FPIF and Cost Plus Fixed Fee Contract Line Items (CLIN), however, the contract Ceiling Price represents only FPIF CLINs.

Contract quantities are tracked by vehicle rather than weapon systems.

**Factors Contributing to Schedule Variance and Projected Effects on Program Schedule**

None

**(U) Production**

**(U) Low-Rate Initial Production**

	<b>Original LRIP Determination</b>	<b>Current LRIP Determination</b>
Total LRIP Quantity	67	223
Date	10/21/2013	12/12/2019
Reference	Milestone C ADM	Extended LRIP ADM
LRIP Period	FY 2014 - 2017	FY 2014 - 2020
Total Procurement Quantity	689	689
LRIP Percentage of Total	9.7%	32.4%

**Rationale if LRIP Quantity Exceeds 10% of Total Procurement Quantity (Current Determination)**

The Current Total LRIP Quantity is more than 10% of the total production quantity as authorized in the Milestone C ADM to provide adequate test assets to complete all required tests and to provide a gradual ramp-up to FRP.

**LRIP Notes**

None

**(U) Deliveries and Expenditures**

**(U) Acquisition Funding**

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	29	17	58.6%
Appropriations (TY, \$M)	11,644.0	6,414.0	55.1%
Expenditures (TY, \$M)	11,644.0	4,283.0	36.8%

**(U) End Items Delivered**

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	2			
PIM		2	2	
Procurement	689			
PIM		272	248	
<b>Total</b>	<b>691</b>	<b>274</b>	<b>250</b>	<b>36.2%</b>

**Notes**

None

## (U) International Program Aspects

### General Memo

Currently there are no international agreements for the PIM program.

### Exportability and Business Issues

N/A

Is design for international exportability planned?	No	Industry/Partner Exportability Cost-Sharing?	No
If not, has the MDA approved an exportability waiver for a U.S.-only design?	Not Approved		

### Program Protection: Technology Security and Foreign Disclosure Issues

N/A

### (U) Agreements

No International Agreements have been defined for PIM



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## **Modernized Selected Acquisition Report Supplement**

### **Paladin Integrated Management (PIM)**

FY 2025 President's Budget  
Effective: December 31, 2023

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## **MSAR Supplement Sections**

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

## Program Description

**Full Name**

Paladin Integrated Management

**Short Name**

PIM

**PNO**

466

**Lead Component**

Army

**AAF Pathway**

MCA

**Acquisition Type**

MDAP

**Acquired Systems**

PIM

### Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR?	
						Acq	O&S
M109A6 Paladin Self Propelled Howitzer	L91	MCA	AP	II	FOC/FD	No	No
Extended Range Cannon Artillery	Q64	MTA	MTRP		Transitioned/ Restructured	No	No

## **Program Use of the Adaptive Acquisition Framework**

PIM is a Major Capability Acquisition program. The antecedant system is the M109A6/M992A2 Paladin program. The successor system is the Extended Range Cannon Artillery (ERCA).

## Technologies and Systems Engineering

### Paladin Integrated Management

#### Major Software Efforts

Title	Status	Fielding Date	Description
No data for 2023 MSAR			

#### Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
No data for 2023 MSAR			

## Funding Sources (Acquisition)

### Acquisition Funding Notes

#### Paladin Integrated Management

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	2040A	05	0210609A - Paladin Integrated Management (PIM)	0210609A	ED8 - Paladin Integrated Management (PIM)		x
Procurement	2033A	01	2073GZ0410 - Paladin Integrated Management (PIM)	0210609A	-		

## Funding Sources (Operating and Support)

*Note: Budget lines fund activities executed by the Program Office or Sustainment Office.*

### Operating and Support Funding Notes

Program has Military Pay, Operations & Maintenance and Ammunition appropriations costs but Program Office does not have visibility to funding.

### Paladin Integrated Management

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
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## Acquisition Estimate and Quantity Summary

### Paladin Integrated Management

#### Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2013 (\$M)	CY2011 (\$M)	CY2024 (\$M)
RDT&E		1,085.6	1,075.3	1,040.7	1,417.1
Procurement		10,551.8	7,912.5	7,658.1	10,427.7
MILCON		-	-	-	-
O&M		6.6	5.7	5.5	7.5
Total Acquisition		11,644.0	8,993.5	8,704.3	11,852.2
PAUC		16.851	13.015	12.597	17.152
APUC		15.315	11.484	11.115	15.134

#### Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
PIM		2	689
<b>Total</b>		<b>2</b>	<b>689</b>

#### Unit Description

Weapon System (Set of 1 M109A7 SPH & 1 M992A3 CAT)

#### Current and Future Years Defense Program Summary, TY(\$M)

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	1,085.6	-	-	-	-	-	-	-	1,085.6
Procurement	5,321.8	469.2	471.8	487.3	423.1	445.1	538.4	2,395.2	10,551.8
MILCON	-	-	-	-	-	-	-	-	-
O&M	6.6	-	-	-	-	-	-	-	6.6
<b>PB 2025 Total</b>	<b>6,414.0</b>	<b>469.2</b>	<b>471.8</b>	<b>487.3</b>	<b>423.1</b>	<b>445.1</b>	<b>538.4</b>	<b>2,395.2</b>	<b>11,644.0</b>

## Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Paladin Integrated Management

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2040A - Research, Development, Test & Eval, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2013 (\$M)
<b>Total</b>		<b>1,085.6</b>	<b>1,085.6</b>	<b>-</b>	<b>1,075.3</b>
2007		1.604	1.6	0.921865	1.7
2008		34.780	34.8	0.939520	37.0
2009		60.992	61.0	0.951526	64.1
2010		147.450	147.5	0.965921	152.7
2011		176.245	176.2	0.984911	178.9
2012		126.320	126.3	1.000428	126.3
2013		149.666	149.7	1.017439	147.1
2014		121.313	121.3	1.037040	117.0
2015		77.210	77.2	1.054451	73.2
2016		142.390	142.4	1.065654	133.6
2017		41.499	41.5	1.088337	38.1
2018		6.113	6.1	1.108032	5.5



## Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Paladin Integrated Management

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2033A - Procurement of W&TCV, Army									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2013 (\$M)
<b>Total</b>	<b>8,340.9</b>	<b>1,883.9</b>	<b>3.2</b>	<b>134.3</b>	<b>-</b>	<b>189.6</b>	<b>10,551.8</b>	<b>-</b>	<b>7,912.5</b>
2007							-	0.932698	-
2008							-	0.945739	-
2009							-	0.958427	-
2010							-	0.976918	-
2011							-	0.998136	-
2012							-	1.012502	-
2013	154.265	30.463	3.134			0.771	188.6	1.030217	183.1
2014	103.579	25.321				36.577	165.5	1.040445	159.0
2015	161.231	61.308	0.016	10.477		6.868	239.9	1.056339	227.1
2016	195.297	64.846	0.026			13.682	273.9	1.078676	253.9
2017	496.821	82.479		3.460		0.832	583.6	1.100740	530.2
2018	562.964	81.144		5.444		14.646	664.2	1.125834	590.0
2019	447.823	44.906		8.076		25.097	525.9	1.162220	452.5
2020	448.164	71.278		11.339		13.644	544.4	1.212935	448.8
2021	356.905	87.643		7.712		11.165	463.4	1.269285	365.1
2022	556.945	78.404		17.240		10.311	662.9	1.313392	504.7
2023	860.107	125.190		11.873		12.319	1,009.5	1.350004	747.8
2024	353.823	101.605		7.520		6.203	469.2	1.379133	340.2
2025	348.078	115.949		3.839		3.922	471.8	1.408152	335.0
2026	358.914	119.474		3.920		5.029	487.3	1.437723	339.0
2027	295.230	119.570		4.002		4.251	423.1	1.467916	288.2
2028	316.145	121.924		4.086		2.903	445.1	1.498742	297.0
2029	406.701	119.425		8.344		3.975	538.4	1.530215	351.9
2030	647.802	119.675		4.260		3.426	775.2	1.562350	496.2
2031	661.500	122.839		4.349		3.090	791.8	1.595159	496.4
2032	604.977	119.069		4.440		3.155	731.6	1.628658	449.2
2033	1.290	35.717		4.534		3.221	44.8	1.662860	26.9
2034	2.052	31.722		4.629		2.225	40.6	1.697780	23.9
2035	0.281	3.968		4.726		2.272	11.2	1.733433	6.5

## Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Paladin Integrated Management

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2020A - Operation & Maintenance, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2013 (\$M)
<b>Total</b>		<b>6.6</b>	<b>6.6</b>	<b>-</b>	<b>5.7</b>
2007			-	0.921668	-
2008			-	0.939301	-
2009			-	0.948852	-
2010			-	0.962673	-
2011			-	0.983583	-
2012			-	0.997641	-
2013			-	1.011419	-
2014			-	1.027377	-
2015			-	1.037640	-
2016			-	1.056209	-
2017			-	1.073995	-
2018			-	1.095525	-
2019		1.888	1.9	1.120449	1.7
2020		1.867	1.9	1.151133	1.6
2021		2.847	2.8	1.207442	2.4

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Paladin Integrated Management

2040A - Research, Development, Test & Eval, Army				
fiscal year	PIM			Total
<b>Total</b>	<b>2</b>			<b>2</b>
Undistributed				-
2014	2			2

## Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

### Paladin Integrated Management

2033A - Procurement of W&TCV, Army				
fiscal year	PIM			Total
<b>Total</b>	<b>689</b>			<b>689</b>
Undistributed				-
2014	17			17
2015	18			18
2016	30			30
2017	48			48
2018	65			65
2019	53			53
2020	46			46
2021	32			32
2022	40			40
2023	59			59
2024	23			23
2025	24			24
2026	26			26
2027	20			20
2028	21			21
2029	28			28
2030	48			48
2031	48			48
2032	43			43

## **Nuclear Costs**

### **Paladin Integrated Management**

#### **Program's Use of Department of Energy Resources**

No data for 2023 MSAR

## Operational Fielding Plan

### Paladin Integrated Management

#### System: PIM

#### Fielding and Inventory Notes

Quantities are Weapon Systems (Sets) consisting of 1 SPH and 1 CAT.

#### PIM Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					205
2024		37			242
2025		37			279
2026		42			321
2027		22			343
2028		57			400
2029		57			457

## O&S Independent Cost Estimate

### Paladin Integrated Management

#### Independent and Current Cost Estimate Comparison

Category	CY2013 (\$M)	Independent Cost Estimate 2/5/2020	Current Estimate 2/13/2023	Variance with ICE (%)
Unit-Level Manpower		8,889.1	8,889.6	0%
Unit Operations		1,472.9	1,495.1	2%
Maintenance		2,426.0	2,193.9	-10%
Sustaining Support		2,155.1	2,121.4	-2%
Continued System Improvements		993.0	1,012.5	2%
Other		3,070.0		-100%
<b>Total O&amp;S</b>		<b>19,006.1</b>	<b>15,712.5</b>	<b>-17%</b>

#### Independent Cost Estimate Source

Event: FRP  
 Type: Component Cost Position  
 Approved by: Office of the Deputy Assistant Secretary of the Army for Cost and Economics (DASA-CE), February 5, 2020

#### Current Cost Estimate Source

Type: Program Office Estimate  
 Approved by: PEO, February 13, 2023

#### Cost Estimate Variance Explanation

Revised estimate due primarily to removal of Other costs per ODASA-CE 2020 Army Cost Analysis Manual guidance and lower maintenance costs based on mix of OCONUS fieldings and repair cycle floats impacting overhaul schedule.

## Annual Operating and Support Estimates by Cost Element

### Paladin Integrated Management

#### System: PIM

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2013 (\$M)
<b>Total</b>	<b>8,889.6</b>	<b>1,495.1</b>	<b>2,193.9</b>	<b>2,121.4</b>	<b>1,012.5</b>	<b>-</b>	<b>15,712.5</b>
2014	0.013			0.007			0.0
2015	0.013			0.007			0.0
2016	0.013			0.007			0.0
2017	0.013			0.480			0.5
2018	27.097	0.091	3.040	3.399			33.6
2019	81.244	1.138	8.445	9.236			100.1
2020	108.317	12.657	11.147	12.155	3.506		147.8
2021	138.569	18.489	15.347	17.516	5.964		195.9
2022	144.944	22.446	17.946	24.726	7.968		218.0
2023	172.017	24.917	20.649	27.638	8.787		254.0
2024	202.272	30.417	24.448	33.237	10.472		300.8
2025	232.526	35.456	28.248	38.359	12.156		346.7
2026	259.604	38.545	31.656	41.277	14.069		385.2
2027	286.686	41.262	34.629	41.877	15.070		419.5
2028	292.319	44.739	35.442	50.595	16.846		439.9
2029	322.213	49.007	39.120	57.649	19.441		487.4
2030	325.026	49.847	39.893	61.210	21.080		497.1
2031	303.579	49.639	85.775	64.607	21.900		525.5
2032	282.133	49.111	109.691	69.236	22.947		533.1
2033	314.846	54.975	75.843	76.762	25.724		548.2
2034	311.667	53.547	113.872	74.383	24.905		578.4
2035	335.564	53.161	131.221	74.622	40.296		634.9
2036	314.848	53.975	76.518	76.233	41.514		563.1
2037	311.667	51.977	116.735	73.791	40.624		594.8
2038	311.665	51.990	117.040	73.967	40.624		595.3
2039	314.839	53.960	80.821	76.471	41.420		567.5
2040	314.830	53.973	85.512	76.233	41.327		571.9
2041	336.270	54.401	122.544	74.719	40.530		628.5
2042	312.004	52.874	122.609	74.017	40.530		602.0
2043	339.077	55.740	80.741	77.111	41.514		594.2
2044	336.253	54.670	128.782	74.958	40.436		635.1
2045	309.180	51.753	115.298	71.800	39.593		587.6
2046	255.018	45.462	124.514	65.963	37.578		528.5



**System: PIM**

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2013 (\$M)
2047	233.571	45.656	31.529	67.476	37.906		416.1
2048	203.299	40.204	46.249	62.292	35.798		387.8
2049	196.942	35.833	24.505	57.471	34.158		348.9
2050	169.868	33.026	22.495	54.314	33.315		313.0
2051	139.616	27.920	18.349	48.953	31.581		266.4
2052	109.364	23.177	13.978	43.592	28.817		218.9
2053	82.291	19.638	11.487	40.849	27.880		182.1
2054	55.217	16.956	8.514	37.993	19.366		138.0
2055	49.590	14.536	7.234	33.322	16.733		121.4
2056	19.704	9.928	3.556	27.365	10.397		71.0
2057	16.890	8.412	3.250	24.135	9.571		62.3
2058	11.264	5.702	2.302	17.713	5.480		42.5
2059	5.637	3.122	1.691	11.424	3.836		25.7
2060	0.010	0.717	0.607	0.125	0.410		1.9
2061	0.010	0.103	0.607	0.125	0.410		1.3