

## Business Case: Capital Asset Summary

### Part I: Summary Information and Justification (All Capital Assets)

#### Section A: Overview & General Information

**Date Investment First Submitted:** 2009-06-30  
**Date of Last Change to Activities:**  
**Investment Auto Submission Date:**  
**Date of Last Investment Detail Update:** 2021-06-29  
**Date of Last Business Case Update:** 2021-06-29  
**Date of Last Revision:** 2021-06-30

**Agency:** 007 - Department of Defense--Military Programs      **Bureau:** 97 - Defense-wide

**1. Name of this Investment:** Armed Forces Health Longitudinal Technology Application

**2. Unique Investment Identifier (UJI):** 007-000000049

#### Section B: Investment Detail

- Provide at least one Agency Strategic objective code ([A-11 Section 230](#)) and/or Agency Priority Goal code ([A-11 Section 250](#)) that this investment aligns to on performance.gov. If this investment aligns to more than one Agency strategic objective code and/or Agency Priority goal code list all that apply. If your agency does not report to performance.gov please use "0". This is required for Agency IT Portfolio Summary Part 1 and Part 2 Investments, not for Part 3 Investments.**

Agency Strategic Objective(s):

007SO18266: Restore Military Readiness to Build a More Lethal Force

Agency Priority Goal(s):

- Briefly describe the investment's return on investment, including benefits internal and external to the government and outcomes achieved or planned.**

There is no current Return on Investment (ROI). The original ROI for AHLTA was developed in FY 1998 and was 78%. Since AHLTA is envisioned to be sunset with the final development/deployment of the MHS GENESIS, costs would outweigh the benefits to generate a new ROI. AHLTA supports uniform, high-quality health promotion and healthcare delivery to Military Health System (MHS) beneficiaries across the enterprise. Functionality requirements identified and benefits include: - Forms-based process automation tool – to support variety of simple and complex forms-based processes that occur primarily within the context of and those that intersect with the EHR. - Flowsheets - to support longitudinal workflow capture of, display, and management of clinical data. - Improved documentation and tracking of specific patient populations such as sexual assault, suicide risk, and chronic pain. - Improved administrative management capabilities– to support ongoing regulatory compliance and other externally-driven industry standards designed to improve patient safety and confidentiality. - Workflow

optimizations – to improve inconsistent and variable workflow such as patient registration, to reduce duplicate records, and to ensure regulatory compliance - Ongoing support for Command high-interest initiatives such as the Medical Home initiative - Reporting optimizations: readiness, standard of care, and patient levels. - Improvement to critical document handling capabilities. - Improved clinical management capabilities: regulatory compliance, patient transfers, surrogate workflows. .

3. If this investment will result in the elimination or the reduction of another major or non-major investment(s), please complete the following:

Table I.B.1 Affected Investment Information	
Investment UII	To Be Status
NONE	

4. Does the Investment currently include an intra- or inter-Agency shared service (common, shared, or centralized solution)?:  
YES
5. Does the Investment plan to include an Intra- or Inter-Agency shared service that it does not currently include (common, shared, or centralized solution)?:  
YES
6. If systems contained in this Investment collect data from the public, please identify the OMB Control Numbers which authorize that data collection as per the Paperwork Reduction Act. Use [Reginfo](#) at the following link to identify information collection requests and OMB control numbers. Agencies can work with their Records Officers to determine the applicability.
7. Provide the name of the Investment-level project manager:  
COL Neris Nieves-Robbins
8. Select the qualification/experience level of the Investment-level project manager (select one):  
3 - FAC-P/PM(DAWIA-1)- Entry Level

## Section C: Life Cycle Costs

1. Provide the total estimated life cycle costs for the investment in millions. Note: Do not enter information in the grey cells as these will be calculated.

Table I.C.1 Life Cycle Costs				
	PY-1 & Prior	PY 2021	CY 2022	BY 2023
Planning Costs:	0	0	0	0
DME (Excluding Planning) Costs:	0	0	0	0
DME (Including Planning) Govt. FTEs:	0	0	0	0
Sub-Total DME (including Internal Labor (Govt. FTE)):	0	0	0	0
O & M Costs:	\$2,068.626000	\$78.837000	\$65.378000	\$49.809000
O & M Internal Labor (Govt. FTE):	\$49.358000	\$0.945000	\$1.465000	\$0.551000
Sub-Total O & M Costs (Including Internal Labor (Govt. FTE)):	\$2,117.984000	\$79.782000	\$66.843000	\$50.360000
Total Cost (Including Internal Labor (Govt. FTE)):	\$2,117.984000	\$79.782000	\$66.843000	\$50.360000
Total Cost Internal Labor (Govt. FTE) costs:	\$49.358000	\$0.945000	\$1.465000	\$0.551000
# of FTE rep by costs:	332	5	9	3
Total change from prior year final President's Budget (\$)		\$-2.932000	0	
Total change from prior year final President's Budget		-3.54%	0.00%	

Table I.C.1 Life Cycle Costs

	PY-1 & Prior	PY 2021	CY 2022	BY 2023
(%)				

2.
  - a. In which year did or will this investment begin? (specify year - e.g., PY-1= 2019)  
1996
  - b. In which year will this investment reach the end of its estimated useful life? (specify year - e.g., FY+5 = 2027)  
2024
3. Compare the funding levels for PY and CY to the final FY 2022 President's Budget for those same years. Briefly explain any significant changes. When making comparisons, ensure that you compare same-year-to-same-year (e.g., the FY20 level for 2020 versus the FY21 level for 2020):  
FY 2020: Decrease due to year of execution adjustments. FY 2021: No change.

## Business Case Detail: Performance Measurement Report

### Section A1: General Information

1. **Name of this Investment:** ARMED FORCES HEALTH LONGITUDINAL TECHNOLOGY APPLICATION
2. **Unique Investment Identifier (UII):** 007-000000049

## Section C1: Projects Table

Projects Table C.1

Unique Project ID	Project Name	Project Goal	Project Start Date	Project Completion Date	Project Lifecycle Cost (\$M)	Software Project?
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NONE

## Section C2: Project Activities

1. Provide all non-agile project activities for projects in Table C.1 that started in a previous FY (PY and earlier) and that have not been completed by the beginning of the CY, as well as activities that are scheduled to start in the current FY and BY.

Project Activity Table C.2.1

Unique Project ID	Activity Name	Activity Description	Structure ID	Planned Start Date	Projected Start Date	Actual Start Date	Planned Completion Date	Projected Completion Date	Actual Completion Date	Planned Total Costs	Projected Total Costs	Actual Total Costs
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NONE

## Section D: Operational Data

1. Provide the date and results of the last Operational Analysis (for operational and mixed life cycle systems/Investments):
  1. Date of Analysis:
  2. Analysis Results:
  3. Analysis Conclusion: continue as is
2. Report a minimum of 5 metrics using the following table to provide metrics and actual results for each individual metric:

Metrics Definitions and Actual Results Table D.2 / D.3

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
30630	Clinical Data Repository CPU Utilization, using the measurement methodology in place for the MHS Strategic Plan	Percentage	2 - Strategic and Business Results	0.000000	0.000000	75.000000	Under target	Monthly	007SO18266 : Restore Military Readiness to Build a More Lethal Force	No
Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment						
30630	288220	60.000000	03/31/2021							
30630	288219	60.000000	02/28/2021							
30630	288218	65.000000	01/31/2021							
30630	288217	66.000000	12/31/2020							
30630	288216	71.000000	11/30/2020							
30630	288215	73.000000	10/31/2020							
26884	Healthcare Effectiveness Data and Information Set (HEDIS) Health Quality Index – Preventive Services. Measured by percentage of total possible index points based on National Committee for Quality	Percentage	2 - Strategic and Business Results	0.000000	86.000000	86.000000	Over target	Annual	007SO18266 : Restore Military Readiness to Build a More Lethal Force	No

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Metrics Definitions and Actual Results Table D.2 / D.3

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
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measurement:  
Actual  
Transactions for  
2-6 Second  
Operational  
Requirements  
Document (ORD)  
criteria 90% of  
the time, using  
the measurement  
methodology in  
place for the  
MHS Strategic  
Plan Measures.

Business Results

Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
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NONE

26880	Actual Transactions for 25 Second Operational Requirements Document (ORD) criteria 90% of the time, using the measurement methodology in place for the MHS Strategic Plan Measures. (New measure as of November 2012)	Seconds	2 - Strategic and Business Results	0.000000	16.000000		Under target	Monthly	007SO18266 : Restore Military Readiness to Build a More Lethal Force	No
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Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
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NONE

26879      Tier I primary      Ratio      1 - Customer      0.000000      Under target      Quarterly      Yes

Metrics Definitions and Actual Results Table D.2 / D.3

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
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errors seen by users of the AHLTA application measured in number of errors per encounter measured at sites with AHLTA 3.3 SP1

Satisfaction (Process Results)

Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
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NONE

26878	AHLTA end user Operational Availability (Ao) = Total Potential Up Time – Total Down Time for Army, Navy, NCRMD, and the Enterprise	Percentage	2 - Strategic and Business Results	0.000000	98.800000	98.800000	Over target	Monthly	007SO18266 : Restore Military Readiness to Build a More Lethal Force	No
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Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
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26878      288211      99.410000      03/31/2021      ARMY - 99.41% NAVY - 99.62% NCRMD - 99.41% Enterprise - 99.41%

26878	288210	98.640000	01/31/2020	Army did not meet its target due to 2 hour unscheduled outage on 2 January 2020 impacting 25 sites. The Root Cause was an issue with the primary DHA VPN router at DISA Montgomery. The VPN router was rebooted to restore service. Navy did not meet its target due to 3 hour unscheduled outage on 17 January 2020 impacting 10 sites.
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Metrics Definitions and Actual Results Table D.2 / D.3

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
					26878	288209	99.140000	11/30/2020	ARMY - 99.17% NAVY - 99.09% NCR - 99.29% Enterprise - 99.14%	
					26878	288208	98.690000	10/31/2020	ARMY - 98.83%, NAVY - 98.42%, NCRMD - 99.53% Navy and the enterprise did not meet its October availability target due to an unscheduled outage at USNH Guam on 21 OCT.	
					26878	288207	98.290000	11/30/2019	Army did not meet its target due to a 32 hour unscheduled downtime on 29 Nov 2019 at Ft Hood. The Internet Service Gateway (ISG) was rebooted and AHLTA came back up. Navy did not meet its target due to multiple sites experiencing software issues on 16 Nov 19 during their November maintenance. Users were unable to connect to the AHLTA. The Root Cause was an issue with the Oracle quarterly patch. DISA rolled back the quarterly Oracle patch to restore services.	
					26878	288206	98.860000	09/30/2020	Air Force - Data Unavailable ARMY - 98.92% NAVY - 98.83% NCRMD - 98.32% Enterprise - 98.86% NCRMD did not meet its September Availability target due to a 12 hour scheduled downtime on 06 September 2020 for the Oracle 19c Upgrade on the CDR and a 3 hour unscheduled outage.	
					26878	288205	0.000000	03/31/2020	E2E team reported there was an issue with AHLTA monitoring during the month of March. Unknown to E2E, DISA began disabling the AHLTA web services that supported version 3.3.8 of AHLTA. It was determined that there were differences in the behavior of AHLTA monitoring scripts between versions 3.3.8 and 3.3.9. The scripts were	

Metrics Definitions and Actual Results Table D.2 / D.3

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
									updated to resolve the issue but the March availability for AHLTA is not reportable due to the errors in the data set.	
					26878	288204	0.000000	04/30/2020	E2E team reported there were issues with AHLTA monitoring during the month of April. 1) Some sites are in the process of being removed from the monitoring reports due to Windows 2008 no longer being supported. The CSMS team is deploying Virtual Machines to some of the impacted locations but due to COVID 19 the team has been unable to travel. 2) The other driver is the impact of shutting down AHLTA 3.3.8 web services.	
					26878	288203	97.430000	02/29/2020	The enterprise did not make its availability targets due to an enterprise-wide software issue on 26 February. Users were unable to connect to the application. The Root Cause was the McAfee Host Based Security System (HBSS) was consuming 100% CPU and memory on all Windows 2016 Local Cache Servers (LCS).	
					26878	288202	99.160000	06/30/2020	Air Force - Data Unavailable; ARMY - 98.92%; NAVY - 99.49%; NCRMD - 98.72%; Enterprise - 99.16%; NCRMD did not meet its June target due to unscheduled outage (3.29 hours) on 27 June due to high temperatures in the datacenter. A scheduled HVAC maintenance was in progress, however application software and hardware had to be powered off to prevent damage. Once power and HVAC were restored to datacenter, DISA confirmed LCS restart.	

Metrics Definitions and Actual Results Table D.2 / D.3

Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?
26877	Healthcare Effectiveness Data and Information Set (HEDIS) Health Quality Index – Preventive Services. Measured by	Number – Index points	2 - Strategic and Business Results	0.000000	26878	288201	0.000000	05/31/2020	The May availability for AHLTA is not reportable due to the errors in the data set. E2E team reported there were issues with Topaz monitoring during the month of May. They deployed new AHLTA 3.3.9 monitoring scripts, but the scripts fail to execute properly. They resolved the issue but the errors made the May data set inaccurate.	
					26878	288200	98.800000	12/31/2019		
					26878	288199	99.120000	10/30/2019	AHLTA Availability: Air Force - Data Unavailable ARMY - 99.16% NAVY - 99.05% NCRMD - 99.41% Enterprise - 99.12%	
					26878	288198	99.600000	02/28/2021	ARMY – 99.72% NAVY – 99.70% NCRMD – 99.71% Enterprise – 99.60%	
					26878	288197	99.250000	01/31/2021	ARMY – 99.34% NAVY – 99.11% NCRMD – 99.36% Enterprise – 99.25%	
					26878	288196	99.720000	12/31/2020	ARMY - 99.72% NAVY - 99.71% NCR - 99.78% Enterprise - 99.72%	
					26878	288195	99.610000	08/31/2020	Air Force - Data Unavailable ARMY - 99.63% NAVY - 99.58% NCRMD - 99.62% Enterprise - 99.61%	
					26878	288194	98.850000	07/31/2020	Air Force - Data Unavailable ARMY - 98.84% NAVY - 98.86% NCRMD - 98.93% Enterprise - 98.85%	
							Over target	Annual		Yes

Metrics Definitions and Actual Results Table D.2 / D.3										
Metric ID	Metric Description	Unit of Measure	Performance Measurement Category Mapping	Agency Baseline Capability	2020 Target	2021 Target	Measurement Condition	Reporting Frequency	Agency Strategic Objective / Agency Priority Goal	Is Metric Retired?

Index Points.  
Version 2 (Breast  
Cancer  
Screening,  
Cervical Cancer  
Screening, Well  
Child Visits)

Metric ID	Actual Result ID	Actual Result	Date of Actual Result	Comment
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NONE