Primary Recommendation A2 New Appropriation Category

Line o	of Effort	Refactor statutes, regulations, and proce	sses for software.	
Reco	mmendation	Create a new appropriation category f that allows (relevant types of) softwar budget item, with no separation betwee sustainment.	e to be funded as a	single
Stake	eholders	A&S, HAC-D/SAC-D, HASC/SASC, USD PA&E, FASAB, OMB	O(C), CAPE, SAE, Se	ervice FM &
Back	ground	Current law, regulation, and policy treat so of discrete, sequential steps; accounting depreciating asset. These processes are continuously updated to add new function delays in fielding user-needed capability.	guidance treats soft at odds with softwan nality, and they crea	ware as a re being
Desir	ed State	Appropriations for software and software Force Program (MFP) category that provide full life cycle costs of software, including assurance, deployment, and continuous better able to prioritize how effort is spen fixing bugs/vulnerabilities, improving exist prioritization can be made based on ward mission profiles, and other external drive sources of funding.	ides a single budget development, procul improvement. Progra it on new capabilities sting capabilities, etc ighter/user needs, c	to support rement, ams are sversus . Such hanging
Role	of Congress	This should become the primary pathway software and software-intensive program with the insight required to oversee softw much faster pace than traditional HW pro and milestones replaced by more softwa progress.	es and should provide vare projects that mo ograms, with tradition	e Congress ve at a nal metrics
	Dı	raft Implementation Plan	Lead Stakeholder	Target Date
A2.1	(optional) Sub create a new	omit legislative proposal using Sec 805 to appropriations category for software and asive programs.	USD(A&S), with USD(C) and CAPE	Q3 FY19 for FY20 NDAA
A2.2	Create new a programs, wit	ppropriation category for software-intensive th appropriate reporting and oversight for sed on Action A2.1 or Appendix B.1).	HAC-D, SAC-D, with OSD, HASC, SASC	FY20 NDAA, FY20 budget
A2.3	use new SW	programs using DevSecOps to convert to or Appropriation in FY20.	USD(A&S), with Service Acquisition Executives	Q4 FY19
A2.4	_	t exhibits for new SW appropriation for P- and R-Forms; see Appendix C).	USD(A&S), with USD(C), CAPE, HAC-D, SAC-D	Q4 FY19

A2.	Change audit treatment of software with these goals: (1) separate category for software instead of being characterized as property, plant, and equipment; (2) default setting that software is an expense, not an investment; and (3) "sustainment" is an integrated part of the software life cycle.	FASAB, with USD(A&S) and USD(C)	End FY20
A2.	· · · · · · · · · · · · · · · · · · ·	USD(C) and CAPE	Q1 FY21
A2.	7 Ensure programs using new software appropriation submit budget exhibits in the approved format.	SAE with USD(C), CAPE	FY 22 POM

SWAP concept paper recommendations related to this recommendation

	Budgets should be constructed to support the full, iterative life cycle of the software being procured with amount proportional to the criticality and utility of the software.
Visits	Construct budget to support the full, iterative life cycle of the software.

SWAP working group inputs (reflected in Appendix F) related to this recommendation

Acq	Revise 10 USC 2214 to allow funding approved by Congress for acquisition of a specific software solution to be used for research and development, production, or sustainment of that software solution, under appropriate conditions.
Арр	A new multi-year appropriation for Digital Technology needs to be established for each Military Defense Department and the Fourth Estate.
Арр	Components will program, budget, and execute for information and technology capabilities from one appropriation throughout life cycle rather than using RDT&E, procurement, or O&M appropriations—often applied inconsistently and inaccurately—allowing for continuous engineering.
Con	Congress establishes new authority for contracting for SW development and IT modernization.
M&S	Revise 10 USC 2460 to replace the "software maintenance" with "software sustainment" and use a definition that is consistent with a continuous engineering approach across the life cycle.
M&S	A DoD Working Group should be established to leverage ongoing individual Service efforts and create a DoD contracting and acquisition guide for software and software sustainment patterned after the approach that led to creation of the DoD Open Systems Architecture Contracting Guide.
M&S	Acquisition Strategy, RFP/Evaluation Criteria, and Systems Engineering Plan should address software sustainability and transition to sustainment as an acquisition priority.
Con	Manage programs at budget levels, allow programs to allocate funds at project investment level.
Con	Work with appropriators to establish working capital funds so that there is not pressure to spend funds sooner than when you're ready (iterative contracts may produce more value with less money).

Related recommendations from previous studies

	When assigning resources to all activities, the schedule should reflect the resources (labor, materials, travel, facilities, equipment, and the like) needed to do the work, whether they will be available when needed, and any constraints on funding or time.
GAO17	Hold suppliers accountable for delivering high-quality parts for their products through activities including regular supplier audits and performance evaluations of quality and delivery.

	Prioritize investments so that projects can be fully funded and it is clear where projects stand in relation to the overall portfolio.
CSIS18	Performance Based Logistics (PBL) contracts should have a duration that allows for tuning and re-baselining with triggered options and rolling extensions.
	Rec. 41: Establish a sustainment program baseline, implement key enablers of sustainment, elevate sustainment to equal standing with development and procurement, and improve the defense materiel enterprise focus on weapon system readiness.
	Rec. 42: Reduce budgetary uncertainty, increase funding flexibility, and enhance the ability to effectively execute sustainment plans and address emergent sustainment requirements.