



Software Maintenance in the Department of Defense (DoD)

OSD Interest Areas and Perspective

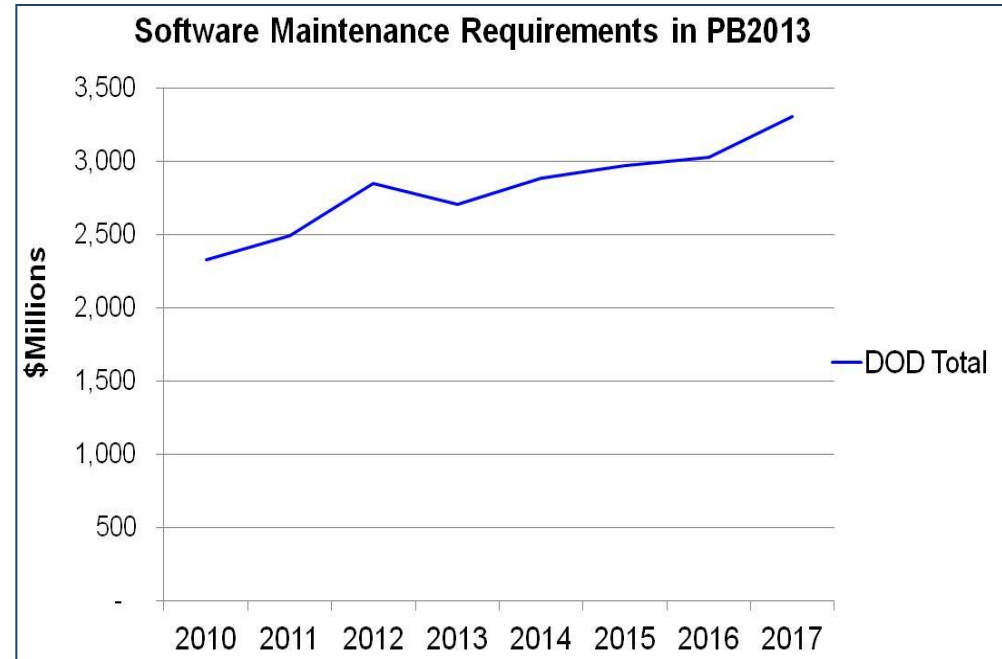
2012 DoD Maintenance Symposium

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Situation

- Software maintenance is a growing, important component of our sustainment enterprise
- OSD is working in key areas to ensure that the overarching depot maintenance framework is adapting to address emerging issues



What does “right look like” in terms of applicable Statutes, Policies, and Procedures?



Current OSD Interest Areas

- Software maintenance definitional developments
 - consistency in emerging law and DoD policy
- Increased insight and awareness into the scope and nature of software maintenance
- Other challenges



Definitional Developments

Definition of Depot-Level Maintenance and Repair –
(10 USC 2460):

Pre-2012... all aspects of software maintenance classified by the Department of Defense as of July 1, 1995, as depot-level maintenance and repair...

Current ...any action performed on materiel or software in the conduct of inspection, repair, overhaul, or the modification or rebuild of end-items, assemblies, subassemblies, and parts, ...

– includes...

- the repair, adaptive modifications or upgrades, **change events made to operational software**, integration and testing; and
- in the case of either hardware or **software modifications or upgrades**, **the labor associated with the application of the modification.**



Definitional Developments

Definition of Depot-Level Maintenance and Repair –
(10 USC 2460): **Under Consideration for FY2013 NDAA**

DoD consensus recommendation:

(B) the repair, adaptive modifications or upgrades, and change events (including integration and testing) made to operational software resident in a weapon system or in support equipment that is integral to the operations or sustainment of a weapon system. This can include the modifications or upgrades necessary to ensure relevance in operations and interoperability with other systems...



Consistent Law and Policy

Key Statutes

10 USC 2460 Definition of Depot Maintenance



10 USC 2464 Core Depot-Level Maintenance and Repair Capabilities

10 USC 2466 Limitation on the Performance of Depot-Level Maintenance of Materiel



10 USC 2366a - MDAPs-Certification Required before Milestone A Approval



10 USC 2366b - MDAPs-Certification Required before Milestone B Approval

Body of Policy/Guidance

DoDD 4151.18, Maintenance of Military Materiel — Mar 04

DoDD 4151.18-H, Depot Maintenance Capacity and Utilization Measurement — Mar 07

DoDI 4151.19, Serialized Item Management — Dec 06

DoDI 4151.20, Depot Maintenance Core Capabilities Determination Process — Jan 07

DoDI 4151.21, Public-Private Partnerships for Depot-Level Maintenance — Apr 07

DoDI 4151.22, Condition Based Maintenance Plus (CBM+) for Materiel Maintenance — Dec 07

DoD Financial Management Regulation 7000.14-R, Volume 6A, Chapter 14 — Depot Maintenance Reporting

DoD Financial Management Regulation, Summary of Major Changes to DoD 7000.14-R, Volume 6B, Chapter 12

FY12 NDAA Implementation Guidance for Depot-Level Maintenance — Apr 12

50/50 Reporting Guidance

DoDI 4251.XX, Depot Source of Repair (DSOR) in final draft going into formal coordination

OSD focus is on software maintenance clarity throughout maintenance law and policy



Increased Insight & Awareness

- Data and Analysis Center for Software (DACCS)
 - Software Engineering Institute (SEI)
 - Government Accountability Office (GAO)
- definition of [software] maintenance
- ISO/IEC 14764 & IEEE 14764-2006
 - CAPE SNaP Initiative (OSD Cost Analysis)



Other Challenges

- Cyber security
- Cyber as a weapon
- Workforce skills, trends
- Financial & contract management



Summary

- Software maintenance is a large and growing element of DoD sustainment
- The criticality of this commodity makes definitional developments in law and policy very important
- OSD is working to align key aspects of the regulatory framework and to increase insight into the scope and nature of DoD software maintenance