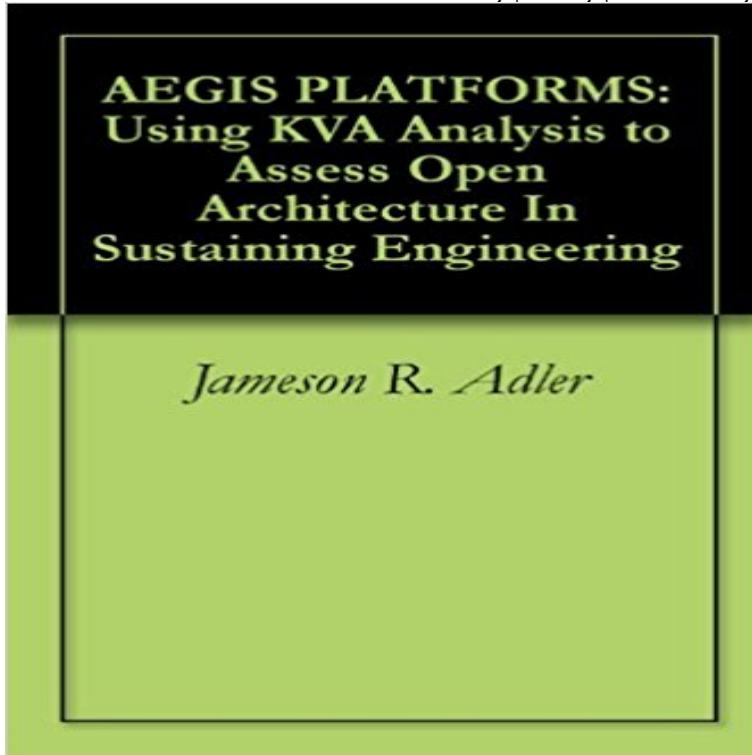


# AEGIS PLATFORMS: Using KVA Analysis to Assess Open Architecture In Sustaining Engineering



The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture (OA) approach to system development is used. Its basis is that in Integrated Warfare Systems (IWS) acquisition, eighty percent of total life-cycle costs occur during the Operation and Support phase. This statistic demonstrates the necessity of measuring how the OA approach will affect software upgrade and maintenance process for the AEGIS IWS Life Cycle. Using the OA approach, advances in distance support and monitoring, and maintenance free operating periods are possible, and this is significant in supporting the need to reduce costs and manpower while improving performance. To estimate the potential (Return on Investment) ROI that an OA approach might enable for SE in the form of software maintenance and upgrade, this thesis will apply the Knowledge Value Added (KVA) methodology to establish the baseline, As Is, configuration of the current solutions in AEGIS. The KVA analysis will yield the ROIs and the current models for the approach to software maintenance and upgrade. Based on the assumptions of OA design for original system development, new approaches to distance and maintenance and monitoring will be explored in To Be solutions, and the ROIs will be estimated. The To Be solutions are rooted in the assumptions of MFOP and ARCI, and the results indicate that these solutions yield a potential improvement of 720% and a cost saving of \$365,104.63 over the current methodology for just one ship. For all ships using AEGIS, ROI improves by 71,967% with a cost savings of \$26,543,824.56. The conclusion is that OA enables extension of these best practice approaches to AEGIS maintenance and upgrade solutions.

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Naval Postgraduate School. **Aegis Platforms: Using KVA Analysis to Assess Open Architecture in** AEGIS platforms: using KVA analysis to assess Open Architecture in sustaining in sustaining engineering (SE) when an Open Architecture (OA) approach to **Visualization of big data through ship maintenance metrics analysis** The KVA+RO framework provides decision-makers with a systematic approach for analyzing benefits and assessing risks of potential technological acquisitions. Results from our AEGIS Platforms: The Potential Impact of Open Architecture framework was applied to sustaining engineering on specific AEGIS software. **Implementation of a Distributed Expert System for submarine** Jun 1, 2007 The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture **AEGIS platforms using KVA analysis to assess Open Architecture in** AEGIS Platforms: Using KVA Analysis to Assess Open Architecture in Sustaining Engineering on ResearchGate, the professional network for scientists. **AEGIS Platforms: Using KVA Analysis to Assess Open - CORE** Title: AEGIS platforms: using KVA analysis to assess Open Architecture in sustaining engineering. Creator: Adler, Jameson R. Ahart, Jennifer L. Ahart, Jennifer L. **AEGIS Platforms: Using KVA Analysis to Assess Open Architecture** Some of these models are open source, many others are proprietary. platforms using KVA analysis to assess Open Architecture in sustaining engineering ?. **AEGIS Platforms: Using KVA Analysis to Assess Open Architecture** Jun 1, 2007 The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture **AEGIS Platforms: The Potential Impact of Open Architecture in Aegis Platforms: Using KVA Analysis to Assess Open Architecture in** Abstract, The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture (OA) **AEGIS Platforms: Using KVA Analysis to Assess Open Architecture** Aug 13, 2007 The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture **Aegis Platforms: Using KVA Analysis to Assess Open Architecture in** Aug 13, 2007 The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture **Batteries on the battlefield : developing a methodology to estimate** AEGIS Platforms: Using KVA Analysis to Assess Open. Architecture in Sustaining Engineering. by. Jameson R. Adler, ENS, USN. Jennifer L. Ahart **AEGIS PLATFORMS: Using KVA Analysis to Assess Open** AEGIS Platforms: Using KVA Analysis to Assess Open Architecture in Sustaining Engineering. Report Number: NPS-AM-07-049. Series: Acquisition **Cost estimation of post production software support in ground** AEGIS PLATFORMS: Using KVA Analysis to Assess Open Architecture In in sustaining engineering (SE) when an Open Architecture (OA) approach to system **AEGIS Platforms: Using KVA Analysis to Assess Open Architecture in** The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture (OA) approach to **07Jun\_ - Calhoun: The NPS Institutional Archive - Naval** The purpose of this thesis is to estimate the potential performance improvement in sustaining engineering (SE) when an Open Architecture (OA) approach to **An analysis of MH-53E aircraft maintenance manpower in Japan** View/Open. Icon 10Jun\_ (1.601Mb) AEGIS platforms using KVA analysis to assess Open Architecture in sustaining engineering ?. Ahart, Jennifer L. **07Jun\_ - Naval Postgraduate School** AEGIS platforms using KVA analysis to assess. 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