Project AIR FORCE

## SUPPORTING EXPEDITIONARY AEROSPACE FORCES

An Integrated Strategic Agile Combat Support Planning Framework

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Supporting Expeditionary Aerospace Forces Robert S. Tripp, 1999 This report addresses support of emerging Air Force employment strategies associated with Expeditionary Aerospace Forces EAFs Although much work remains to define these new responsibilities and prepare Air Force units to meet them it is clear that the EAF concepts will play a central role in the future Air Force FAF concepts turn on the premise that rapidly tailorable quickly deployable immediately employable and highly effective air and space force packages can serve as a viable substitute for permanent forward presence in both the strategic and the tactical arenas Success of the EAF will to a great extent depend on the effectiveness and efficiency of the Supporting Expeditionary Aerospace Forces. An Integrated Strategic Agile Agile Combat Support ACS system Combat Support Planning Framework ,1999 This report addresses support of emerging Air Force employment strategies associated with Expeditionary Aerospace Forces EAFs Although much work remains to define these new responsibilities and prepare Air Force units to meet them it is clear that the EAF concepts will play a central role in the future Air Force FAF concepts turn on the premise that rapidly tailorable guickly deployable immediately employable and highly effective air and space force packages can serve as a viable substitute for permanent forward presence in both the strategic and the tactical arenas Success of the EAF will to a great extent depend on the effectiveness and efficiency of the Agile Combat Support ACS A Framework for Enhancing Airlift Planning and Execution Capabilities Within the Joint Expeditionary Movement system System Robert S. Tripp, 2006 Recent operations have shed light on shortfalls in Air Force intratheater airlift Using an expanded strategies to tasks framework the authors assess current intratheater airlift processes organizations doctrine training and systems This report catalogues identified shortfalls and recommends options for improving the Theater Distribution System The authors recommend separation of supply demand and integrator roles and adoption of a closed loop planning and execution process **Supporting Air and Space Expeditionary Forces** Patrick Mills, 2006 As part of a series on supporting the Air and Space Expeditionary Force this report looks at the current operational architecture for incorporating combat support command and control CSC2 and proposes an expanded architecture for the future

Strategic Analysis of Air National Guard Combat Support and Reachback Functions Robert S. Tripp,2006 VANGUARD is the Air National Guard ANG long range transformation program It calls for the ANG to evaluate new concepts prepare for new missions and adopt a new culture that capitalizes on ANG strengths and ensures that the ANG continues to add value as warfighters and to warfighters in the future while remaining ready reliable and accessible One way to support warfighting and warfighters is to continue to support the Air and Space Expeditionary Force AEF a concept developed by the Air Force to allow quick response when appropriate to national security interests with a tailored sustainable force The ANG already plays an important role in the AEF during wartime operations This monograph evaluates options for Air National Guard combat support and reachback missions in four Air Force mission areas to support the AEF investigates transformational

opportunities for the ANG that would add the most value in achieving the desired operational effects and considers how changes in unit and above unit policies are likely to affect Total Force capabilities It should be of interest to logisticians operators and mobility planners throughout the Department of Defense especially those in the Air National Guard and active Supporting Air and Space Expeditionary Forces Ronald G. McGarvey, 2008 This monograph describes the new Air Force modeling approach developed to construct the CONUS CIRF network designs and presents detailed results from the specific analyses The analyses are based on F 15 F 16 and A 10 aircraft force structure bed downs resulting from the Defense Base Closure and Realignment Commission s 2005 recommendations For the three aircraft types all CONUS active duty bases Air National Guard ANG installations and Air Force Reserve Command AFRC installations possessing combat coded or training aircraft along with some Air Force Materiel Command AFMC bases were used as locations to be supported by CIRF networks CIRF network designs were constructed for aircraft engines TF34 F100 F110 electronic warfare EW pods ALQ 131 ALQ 184 Low Altitude Navigation and Targeting Infrared for Night LANTIRN navigation AN AAQ 13 and targeting pods AAQ 14s and F 15 avionics line replaceable units LRUs This set of commodities was chosen because previous analyses many of which were performed at RAND had suggested that they afforded the largest potential savings from consolidated maintenance Tasking scenarios considered in these analyses included normal peacetime training and readiness Air and Space Expeditionary Force AEF deployment taskings and major regional conflict MRC taskings Air Force Logistics Management Agency...,

Air Force Journal of Logistics ,2006 A Framework for Evolving Agile Combat Support Concepts to Meet NATO Reaction Air Force Operational Requirements Robert S. Tripp, Charles Robert Roll, 2001 This paper presents a framework that could be used in evolving the Agile Combat Support ACS and mobility systems of participating partners to meet the operational needs of the NATO Reaction Air Force RAF Based on our experience in evaluating ACS mobility options to meet the United States Air Force Expeditionary Aerospace Force EAF operational goals we suggest that the NATO RAF concept may require a rethinking of the entire combat support system as was the case for the USAF EAF and that subsequently the strategic planning framework for combat support should also be re examined and enhanced To a large degree future force projection and resultant combat capability will be dependent upon strategic choices concerning combat support system design that will be made in the near future This paper explores a planning framework that is based on an integrated set of models and a process for making such strategic decisions Some USAF EAF results of analyses based on using this framework are presented as they may be relevant for the NATO RAF The paper also discusses some impediments in using this framework and evolving an effective coalition ACS system Combat Support...,1993 **Supporting Expeditionary Aerospace Forces** Eric Peltz, 2000 The goal of the Expeditionary Aerospace Force EAF is to be a rapidly deployable strategic force This book argues that consolidating F 15 avionics intermediate maintenance and supporting operations from regional support bases would be a better way of achieving that goal than is presently used **Sense and Respond Logistics Robert** 

S. Tripp,Mahyar A. Amouzegar,Ronald G. McGarvey,2006 This monograph discusses U S Air Force progress toward implementing sense and respond logistics or as defined more broadly sense and respond combat support It describes some of the research that has been conducted on the military combat support system focusing on improvements in prediction capability responsiveness of supply chains and a governing command and control system The report identifies the elements of sense and respond combat support and shows what is necessary to use the concept within the military specifically the Air Force It surveys the state of technology needed to implement the concept and identifies both the technical work that needs to be further developed and the Air Force organization most appropriate to manage the implementation The capabilities described involve predicting what will be needed and responding quickly to anticipated or unanticipated needs The monograph points out the need for both predictive tools and responsive systems working together A key enabler of sense and response combat support is combat support command and control which involves joint development of a plan in which logistics process performance and resource levels are related to desired operational effects establishment of logistics process performance and resource level control parameters execution of the plan and tracking of control parameters against actual process performance and resource levels signaling process owners when their processes lie outside control limits and replanning logistics or operational components of the plan to mitigate the portions of the plan that are outside control limits

**Defense Transportation: Algorithms, Models and Applications for the 21st Century Robert T. Brigantic, Jean** Mahan, 2004-07-22 Defense Transportation Algorithms Models and Applications for the 21st Century contains papers divided into three general sections according to the title of this text algorithms models and applications. The first section on algorithms contains papers that are theoretical in nature or contain new techniques that relate to Defense Transportation System DTS processes A sampling of the papers contained in this section deals with group theoretic tabu search techniques shortest path sailing distance algorithms and strategic airlift model validation methods. The second section contains papers on various transportation models used throughout the DoD and transportation industry as well as some newly developed transportation modelling methods that may eventually find their way into larger scale transportation models A review of the major strategic mobility models is also contained in this section. The third section contains papers on various transportation applications that have been used to support various DTS studies and analyses This section also contains a diverse set of topics with articles ranging from a paper on North Atlantic Treaty Organization NATO strategic lift requirements to an analysis paper on theater reception staging onward movement and integration Preface by General John W Handy Commander United States Transportation Command Focus on land sea and air transportation models and methods Manuscripts written by analysts and researchers active in the field and directly supporting the United States Defense Transportation System Research methods were instrumental in defining the in place DTS that so efficiently deployed forces for Operation Enduring Freedom and Operation Iragi Freedom Combat Support Execution Planning and Control Kristin

F. Lynch, William A. Williams, 2009 Operations in Serbia in 1999 revealed issues with combat support execution planning and control RAND Project Air Force PAF analyzed the then current operation architecture and developed a future TO BE architecture As part of this continuing effort PAF and Air Force personnel formed an assessment team to observe two command post exercises Terminal Fury 2004 and Austere Challenge 2004 that offered an operational environment in which to evaluate Air Force progress in implementing the TO BE The exercises highlighted opportunities in three areas organizational structure systems and tools and training and education in which continuing implementation of the TO BE architecture should improve productivity and enhance decisionmaking Strategic Appraisal Zalmay Khalilzad, Jeremy Shapiro, 2002-07-31 Change in international relations in technology and in society as a whole has become the idiom of our age One example of these changes has been an increasing recognition of the value of air and space assets for handling nearly every contingency from disaster relief to war and onsequently increasing demand for such assets These developments have created both challenges and opportunities for the U S Air Force This the fourth volume in the Strategic Appraisal series draws on the expertise of researchers from across RAND to explore both the challenges and opportunities that the U S Air Force faces as it strives to support the nation's interests in a challenging technological and security environment Contributors examine the changing roles of air and space forces in U S national security strategy the implications of new systems and technologies for military operations and the role of nuclear weapons in U S security strategy Contributors also discuss the status of major modernization efforts within the Air Force and the bill of health of the Air Force as measured by its readiness to undertake its missions both today and in thefuture **Logistics and Warfighting**, **Applications of** Location Analysis H. A. Eiselt, Vladimir Marianov, 2015-09-22 This book companion to Foundations of Location Analysis Springer 2011 highlights some of the applications of location analysis within the spheres of businesses those that deal with public services and applications that deal with law enforcement and first responders While the Foundations book reviewed the theory and first contributions this book describes how different location techniques have been used to solve real problems Since many real problems comprise multiple objectives in this book there is more presence of tools from multicriteria decision making and multiple objective optimization. The section on business applications looks at such problems as locating bank branches the potential location of a logistics park sustainable forest management and layout problems in a hospital a much more difficult type of problem than mere location problems. The section on public services presents chapters on the design of habitats for wildlife control of forest fires the location of intelligent sensors along highways for timely emergency response locating breast cancer screening centers an economic analysis for the locations of post offices and school location The final section of the book includes chapters on the well known problem of locating fire stations a model for the location of sensors for travel time information the problem of police districting locations of jails location of Coast Guard vessels and finally a survey of military applications of location analysis throughout different periods of recent history Air

Force journal of logistics: vol26\_no4, Selected Rand Abstracts Rand Corporation,1999 Includes Reports R series Rand Memorandums RM series papers P series and Books Analyzing Contingency Contracting Purchases for Operation Iraqi Freedom (unrestricted Version) Laura H. Baldwin,2008 This study examines contingency purchases for Operation Iraqi Freedom made in theater during fiscal years 2003 and 2004 and develops a custom database to determine the extent of contractor support and how plans for the organization and execution of contingency activities might be improved to better support the warfighter in future operations

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