Joint Deployment, Employment, & Sustainment (JDES) as an Adaptive System

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Outline

• DELIVERING INNOVATION
• CHAIRMAN AND COMBATANT COMMANDER GUIDANCE
• THE PROBLEM
• SYNOPSIS OF THE CENTRAL IDEA (JDES)
• CONCEPT HYPOTHESIS AND CONCEPT OVERVIEW
• FUTURE WORK RELATED TO THE JDES CONCEPT
  • Joint Sea Basing Example
• JDES CONCEPT DEVELOPMENT & EXPERIMENTATION PLAN
Why A Joint Deployment, Employment Sustainment Concept?

Transformation Planning Guidance:
Rapidly deploy, employ, sustain, and redeploy in austere regions and anti-access and area denial environments;


Emerging Joint Lessons Learned - Again:
“Operation Enduring Freedom”, “Operation Iraqi Freedom”
TRANSOCOM, DLA, JFCOM JLL Team, Services

Joint Experimentation: Mission Area Analysis Places JDES as a command priority + Millennium Challenge 02, Unified Quest 03, Pinnacle Impact 03, Unified Course 03

Chairman JCS Memorandum To Commander US JFCOM, 23 Apr 03; “Deployment and Mobilization Process Reforms”
“Develop a future deployment process concept that evaluates the whole process starting from a “blank piece of paper”.”
Joint Concept Development Path Experimental Focus

- Combatant Commanders
- Joint Staff
- Services

Warfighter-Centric!

Achieving Decision Superiority

1. Achieving info superiority (anticipatory understanding)
2. Decision making in a Collaborative Information Environment
3. Coalition and interagency info sharing
4. Global integration
5. Joint ISR

Creating Coherent Effects

1. Info operations and info assurance
2. Joint maneuver and strike:
   a. Global
   b. Operational
   c. Tactical
3. Interagency ops
4. Multinational ops
5. Precise effects
6. Urban operations
7. Deny sanctuary
8. Transition Ops

Conducting and Supporting Distributed Operations

1. Force projection: Deployment, Employment and Sustainability
2. Force protection and base protection
3. Counter anti-access and area-denial (includes Forcible Entry Ops)
4. Low density high demand assets
5. Proper decentralization

Items in RED have priority
Joint Mission Area Analysis for JDES…

Inputs:

- Focused Logistics Warfighting 03
- Conference of Logistics Directors
- Joint Staff J4/J6
- Services
- OSD
- OSD

Combatant Commanders Mission Area Analysis By JFCOM

Lessons Learned & Re-Learned

Joint Experiments

LOG MIWG

JDES Concept Scorecard

- Planning Process 3
- Command & Control 8
- Force Packaging & Mobility 8
- Sense & Respond Methodology 5

Over 180 Issues

Related To Deployment & Sustainment - - JDES

24 Critical Far Term Issues

12/9/2003
Deployment, employment and sustainment processes and systems are neither responsive nor dynamic enough to respond to how we will “conduct activities in support of multiple simultaneous, distributed, decentralized battles and campaigns.”

Joint Force Commanders have limited options to plan and execute the deployment, employment and sustainment of joint, coalition, and interagency capabilities in a globally distributed, non-contiguous environment.

1 Joint Operations Concepts 3 Oct 2003, 3A7
1. Achieve **common understanding** of all dimensions of the battlespace throughout the joint force.

2. **Make joint decisions** and take action throughout the joint force *faster than the opponent*.

3. **Adapt** in scope, scale, and method as the situation requires.

4. **Rapidly deploy** selected portions of the joint force who can **immediately transition to execution**, even in the absence of developed infrastructure.

5. Create and sustain **continuous pressure** throughout the battlespace for as little or as long as it take to accomplish strategic or operational aims.

6. **Disintegrate, disorient, dislocate, or destroy** any opponent with a combination of lethal and non-lethal means.

7. Conduct **deployment and sustainment** activities in support of **multiple simultaneous, distributed, decentralized battles** and campaigns.

8. Do all of the above **in an inter-agency and multi-national context**.

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**JOpsC Attributes:**

- Fully Integrated
- Expeditionary
- Networked
- Decentralized
- Adaptable
- Decision Superiority
- Lethal (or Effective)

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1 Joint Operations Concepts 3 Oct 2003

12/9/2003
JDES Concept Overview

• **More than a logistics concept.** JDES responds to the challenges and capabilities within the Joint Operations Concepts.

• JDES focuses at the operational level .......... Takes into account the blurring between strategic, operational and tactical levels of war .......

• Is based on a “Sense and Respond” methodology. Multiple means to combine and recombine capabilities to meet requirements. Stresses initiative at all levels.

• Merges **planning, execution, assessment and adaptation** of DES functions / activities within a single construct.

• Postulates a change to **processes, procedures and relationships** between supported and supporting organizations.

• Supports expanding the **“Directive Authority Over Logistics”**
Synopsis Of The Central Idea (JDES)

JDES is the integration of deployment, employment and sustainment activities to enable multiple, simultaneous, distributed operations, thereby fostering a dramatic improvement in capabilities made available to combatant commanders.

HOW? - Develop a Predictive, Adaptive and Responsive Planning and Execution Process/System AND enable with an expanded “lift” capability
• A collaborative Planning and Execution Process
• Develop decision support tools and common “pictures” to aid commands to plan, execute, assess and adapt
• Improve our understanding of capabilities.........globally
• Strengthen relationships between “Supported” and “Supporting” commands, multinational, coalition and interagency partners to develop a better understanding of capabilities.
• Change processes and behavior as a result of “strengthened” and “informed” relationships
• Facilitate initiative at all levels as a result - - Sense and Respond

Planning Process, Command and Control, Force Packing & Mobility Options, Sense & Respond Execution
JDES Is About Process, Procedures And Relationships

- Millennium Challenge 02 Finding: Collaborative Information Environment can quickly bring the intellectual talent to weigh in on the decision making process resulting in a faster, “Higher Resolution” decision
JDES Has “Stock” In The Joint Functional Concepts

- Joint Command and Control
- Force Application
- Battlespace Awareness
- Protection

Speed:
- Physical
- Information
- Cognitive

Joint Functional Concepts
- FL – Focused Logistics
- BA – Battlespace Awareness
- JC2 – Joint Command and Control
- FA – Force Application
- P - Protection
JDES Uses A Sense & Respond Methodology

Supply Chain Methodology
(Predominant Approach)

“Predictive, optimized, linear supply chain”

Sense & Respond Logistics
(Predominant Approach)

“Adaptive, responsive demand networks”

“Traditional C2”

Transition from linear supply chain to adaptive demand network

Joint Force Capabilities Packages

Distributed Operations

Multiple Nodes Respond To Requirements

Sources

Army
Navy
USAF
USMC
Common
Other
JDES Hypothesis

If:

–Planning and execution processes are transformed to be responsive in a collaborative environment
–Our understanding of our own capabilities is dramatically improved
–Our understanding of our coalition partners’ capabilities is dramatically improved
–The horizontal and vertical seams in the way we deploy, employ and sustain joint operations are reduced or eliminated
–The agility to move and distribute material is expanded

Then:

Our options dramatically improve and……

radical improvements in deployment, employment and sustainment in a distributive, globally non-contiguous environment can be realized.
JDES Concept’s Desired Outcome

A significant improvement in our capabilities to plan and execute the movement and sustainment of forces in a joint and multinational context as it relates to:

- Pre-crisis preparedness (Shaping For Success)
- Rapid global employment
- Strategic and operational mobility
- Force endurance

The aim of the Joint deployment, employment and sustainment concept is to describe the means to project, build and sustain military capability in seemingly unimaginable ways, regardless of conditions, in order to achieve military and strategic objectives.
Joint Sea Basing
(“A maritime component of JDES”)

Combat Capability and desired effects generation

How? “Pro Bowl team concept”; mix & match world class capabilities; highly synchronized, networked, adaptable & interdependent

Joint Sea Base Enabled

Duration
Creating desired effects via a networked, adaptive, “joint force projection grid”

Through adaptive Joint C2, the JFC senses changes in capabilities required to create desired effects, and “morphs” the JSB to respond! (“Sense & Respond”)

NOT sequential!
Future Work Related To JDES

• Joint Command and Control
  Relationships and Processes
  Combatant Commander's Directive Authority

• Joint Planning & Execution Process –
  Relationships
  Processes
  Roles of supporting and supported organizations

• JDES Options:
  Joint Sea-Basing
  Advance Mobility applied to moving and sustaining the force

• JDES adopts and uses a Sense and Respond Methodology

• Collaborative Environment
  Information Management, Fusion (Moving to Knowledge)

• Global Distribution Supporting Distributed Operations

• JDES In Coalition Operations

• Doctrine, Policy & Law

• Others
QUESTIONS
JDES – Informs The Focused Logistics Functional Concept

Focused Logistics Functional Concept

Joint Deployment, Employment & Sustainment

Strategic
Operational
Tactical

2003 2015 2022
Joint Functions Linked To Logistics

- Strategic and Intra Theater Mobility – Aerial & Sea Port Operations
- Ground Transportation & Management
- Medical Treatment & Evacuation
- Ammunition Distribution & Storage
- Bulk and Retail Fuel & Water Support (Receipt, Issue, Store)
- Supply Management & Distribution (Food, Building Mat’l, Major End Items, Barrier / Engineer Support Mat’l, Repair Parts)
- Maintenance Operations & Management (Aviation & Ground Systems)
- Food Management / Inspection
- Contracting and Sustainment Acquisition
- Host Nation Support
  - Military Support To Civil Authorities & Civil Affairs
  - Engineering
  - Enemy Prisoners Of War
  - Postal Operations
  - Mortuary Affairs
  - Veterinary
  - Comptroller
  - Legal
  - Military and Civilian Personnel Replacement