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Original title on 712 A/B:  The Joint Distribution Process Analysis Center (JDPAC):  Background and Current Capability

Revised title:___________________________________________________________________

Presented in (input and Bold one): (WG 18,   CG___, Special Session ___, Poster, Demo, or Tutorial):

This presentation is believed to be:
UNCLASSIFIED AND APPROVED FOR PUBLIC RELEASE
The Joint Distribution Process Analysis Center (JDPAC): Background and Current Capability
THE JOINT DISTRIBUTION PROCESS ANALYSIS CENTER (JDPAC): BACKGROUND & CURRENT CAPABILITY

Military Operations Research Society Symposium
Working Group 18
12 June 2007
(Lt Col Dave Van Veldhuizen, AMC/AA9)
OUTLINE

- JDPAC Background
- Current Status/Future Plans
- Current JDPAC Taskings
- Questions
BROAD JDPAC BACKGROUND

- Distribution Process Owner’s (DPO’s) Vision: “Create/Implement World-Class Global Deployment & Distribution Solutions”

- DPO’s Role: “Improve Efficiency,” “Develop DoD Distribution Process”

- Commander’s Guidance for Joint Deployment & Distribution Enterprise (JDDE): “Increased JDDE Partners’ Coordination/Synchronization”

- Commander’s Guidance for JDPAC: “Enhance Ability to Make Fact-Based Decisions”

- JDPAC CONOPS: “Provide Analytical Capabilities & Joint Planning Support”
Mission: To Provide Analysis and Engineering Support to Improve the Nation’s Ability to Move and Sustain the Joint Force and Operate the JDDE

Purpose:
- “Serve as Analytic Engine for USTRANSCOM & Component Commanders”
- Integrate Analytic Capabilities of USTC J5/4, SDDC-TEA & AMC A9
- Improve Focus on Joint Operations & Provide Analytical Solutions
- Support USTRANSCOM Future Operations Center
- Leverage JDDE Partners’ Analytic Capabilities

Core Functions:
- Global Distribution Network and Engineering Assessments
- Analytically Driven Operational Courses of Action
- Joint Capability Analysis to Inform Programmatic Decisions
- Support Components’ Title 10 Programmatic Analysis Responsibilities
- Systems Integration and Data Management
- JDDE Analysis/Global Distribution Performance Assessment
- Futures/Transformation Analysis

JDPAC Provides Analytic & Engineering Support Across the Planning Continuum

- Balancing Operational Art & Science
JDPAC CONSTRUCT

Internal and External Interfaces

JDPAC

Army SES (Dual Hat)
Technical Advisory Board (Contractor/Industry/Academia)
Up to 168 Joint Analytic and Support Personnel
- Programs for National Defense
- Global Defense Trans Infrastructure
- JDDE Operations Analysis
- Distribution Performance Analysis
- Distribution Network Engineering
- Joint Programmatic & Mobility Analysis
- Data Quality / Data Integration
- M&S Tool Mgt & Development
- Futures / Transformation Analysis

SDDC – TEA
Army SES (Dual Hat)
- Transportability Engineering
- Other Title 10 responsibilities

AMC A9
Air Force GS-15 or SES
- Programmatic Analysis
- Operational Assessments
- Lessons Learned
- Integration of M&S Initiatives
- Other Title 10 responsibilities

USTRANSCOM Future Operations Center

DLA DORRA
Academic / Industrial Co-Op
DCMA Industrial Analysis Center
Army LOGSA & CLI
USAF
USN
USMC

Other Analytic Partners
The distribution/transportation engineering, analysis, and planning functions will be consolidated in a *transformational organization*... The JDPAC will *consolidate within a common facility* and use analytical expertise from TRANSCOM, SDDC, and AMC to accomplish engineering and distribution analysis.

- Excerpted from Air Force BRAC Business Plan
Components

Retain Title 10 Responsibilities

OPCON
TECHCON Coordination
Legend

SDDC
TEA
AMC
MSC
A9
N3/5
J3-OI
J3-OZ
J5/4-SA
J3
J5/4

Matrixed, Co-located Organization
Fluid Cross-Functional Teams
Synergistic Effort Producing Joint and Service Solutions

CURRENT ORGANIZATIONAL PLAN *

TCCC

JDPAC Director (TCAC)
JDPAC DEPUTY
TECH ADVISORY BOARD
Distribution Infrastructure
Systems & Data Mgt
Futures/Transformation
Programmatics
Operations Support

Components Retain Title 10 Responsibilities

* C2 Relationships Under Revision

Legend

OPCON
TECHCON Coordination

HQ SDDC Future Ops JDPAC Floor
SUPPORTING RELATIONSHIPS

Future Operations Center:
Deployment & Distribution Solutions

DoD Analytical Agenda:
Model Warfare’s Changing Nature

JDPAC:
Integrates USTC/SDDC/AMC Analyses
Phase I - FY 06
- SDDC assumes lead role for standing up JDPAC
- Refine Campaign Plan
- Define desired products, processes, & skill sets
- Approve Campaign Plan at TCCC Conference- Jun 06
- Virtual Ops between TEA, AMC/A9, TCJ5/4-AS & SA begins 31 Aug 06

Phase II - FY 07 to FY 08
- Analytic Product & Process Improvement
- SDDC relocates to Temporary Facilities at Scott AFB
- Dual- Hat Army SES Designation: Director of JDPAC & TEA
- Local Area Virtual Ops between TEA, AMC/A9, TCJ5/4-AS & SA

Phase III - FY 09 - FY 10
- Recognized as a DoD Center of Excellence
- Consolidation of analysis functions of TEA, AMC/A9, and TCJ5/4-AS & SA into Permanent Facilities @ Scott AFB

BRAC Timeline

Focus Warfighter II
- Internal Realignment
- Stage-Setter for Future Ops Center

Focus Warfighter III
- MILCON
  - SDDC Temp Facility
  - SDDC Alexandria Relocates
  - Transportation Engineering Agency Relocates

Joint Distribution Process Analysis Center
- Sep 10
  - JDPAC

Future Ops Center FOC
- Jul 07
  - SDDC Temp Facility
  - SDDC Ops Center Relocates

In Formation With BRAC Timeline

In Formation

Virtual

IOC

FOC
CURRENT JDPAC TASKINGS

- Chief of Staff Inquiry: Mobility Impact of Army and Marine Increase (CSI: MIAMI)
  - Mobility Impacts of 92K Army/Marine Troop Increase
- Joint Future Theater Airlift Capability Assessment (JFTACA)
  - Assess Joint Force Theater Airlift Rqmts (~2015-2024)
- Joint Intra-Theater Distribution Assessment (JITDA)
  - Assess Intra-Theater Sustainment/Distribution
CSI: MIAMI

Current Baseline:
- Army
  - 42 BCTs
  - 482.4K Soldiers
- Marines
  - 2.5 MEFs
  - 175K Marines

Additional Forces:
- Army
  - 6 BCTs
  - 65K Soldiers
  - Army Reserve Component (RC)
    - 9.2K Soldiers
- Marines
  - 0.5 MEFs
  - 27K Marines

FY 2012 Goal:
- Army
  - 48 BCTs
  - 547.4K Soldiers
  - Army RC
    - 28 BCTs
- Marines
  - 3 MEFs
  - 202K Marines
How Far  
(Strat/Oper/Tac)

How Much  
(# STons/Pax)

How Fast  
(Days/Hours)

How Close  
(Point of Need)

JFTACA

CJCSM 3170.01B JCIDS Process

2012 Defense Planning Scenario

JFTACA

• Qualitative Analysis – Apr 07
• Quantitative Analysis – Jan 08
JITDA

**BLUF:** Starting point to develop understanding of distribution concepts from the Brigade (Bde) Rear to the point of effect in varied conditions. It will not quantify the required capabilities or “right mix” of transportation assets.

- @ Tactical Level, Develop Intra-theater CONOPS And Assess Requirements To The Point Of Effect
  - Three LCO Scenarios
- Assess Sustainment/Distribution Capabilities And Determine Required Joint Distribution Capabilities
  - Focusing On The “Last Tactical Mile”
- Develop Methodology For Force Projection, Sustainment Planning, And Analysis Of Theater Distribution Networks
- Analysis
  - SOUTHCOM and EUCOM Scenarios Completed Mar 07; PACOM LCO Initiated Apr 07; Expected Study Completion Jun 07
QUESTIONS?
SDDCTEA, AMC/A9, and TCJ5/4-AS Reps Are Matrixed To Fulfill Staffing Requirements

JDPAC supports TEA’s/A9’s Title 10 Requirements

* C2 Relationships Under Revision
Title 10 Functions are TACON/TECHCON to the Component Commands and their associated Services. Technical control (TECHCON), while not an official DoD term, is more reflective of the command relationship resulting from the consolidation of analytical functions under the JDPAC.
JFTACA CHARTER

- **Analyze Potential Joint Force Theater Airlift Required Capabilities Facing Future (2015-2024) Joint Warfighters**

- **Examine Potential Gaps and Solutions Associated with Joint Future Theater Airlift From the DPO’s Distribution Process and the Regional Combatant Commander’s Full Range of Military Operations Perspectives**

- **Assess Theater Airlift Across the Spectrum of Deployment, Employment, Sustainment, and Retrograde in response to emerging/future adversarial challenges**


- **Culminate with Two Distinct Deliverables:**
  
  **Qualitative Analysis:** Functional Area Analysis and Initial Gap Analysis which Provides Tasks, Conditions, & Standards and a List of Critical Capability Gaps
    
    - INSIGHTS: Limited Access, Payload, Range, Protection, Short/Rough Landing Capability
    
    Limited/Nonexistent Ability to Conduct Forcible Entry and Vertical Maneuver with Mounted Forces or Operational Maneuver/Sustain from Seabases
  
  **Quantitative Analysis:** Initial Capabilities Document (ICD) which Adds a Prioritized Operationally Based Assessment of Potential Approaches to Solving 1 or More of the Capability Gaps Identified
JITDA

- Joint Staff J4 led follow-on study to the Intra-Theater Lift Capabilities Study (ITLCS)
  - ITLCS did not address delivery over the “last tactical mile”
  - JITDA launched to cover the deficiency
- Scenarios
  - Three Lesser Contingencies (SOUTHCOM, EUCOM and PACOM)
  - Scenarios set in the 2012 time span
  - Detailed brigade by brigade study underway
- AMC/A9 in a support role providing data for:
  - Airfield suitability/capacity
  - Enablers required
- Study participants include Services, USTRANSCOM, OSD/PA&E and applicable COCOM
- Study direction remains at Joint Staff J4, analytic lead transitioned to USTRANSCOM TCJ5/4-AS (for JDPAC)
- Study started May 2006; Expected completion June 07
JDPAC DISTRIBUTION MODELING

AMP FEDERATION

CFAST

JFAST

USTRANSCOM
SDDC-TEA
AMC/A9
OSD PA&E
Joint Staff

ORIGIN
POE
POD
DESTINATION
TAA/TDC
POE
POD
DESTINATION
TAA/TDC
PREDEPLOY
POINT
OF
EFFECT

SUPPLY CHAIN GURU (COTS)
CMARPS
AMOS

VENDOR
CCP
CONUS ELIST
MIDAS
NODAL MODEL
APOD/SPOD
APOD/SPOD
TCSP
TDC
BSB
JICM

DEPOT
DEPOT

CCP

AMOS

SUSGEN

JFAST

JICM

USTRANSCOM
SDDC-TEA
AMC/A9
OSD PA&E
Joint Staff