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Joint Supply Chain Architecture (JSCA)

IMPROVING SUPPLY SUPPORT TO
MAINTENANCE OPERATIONS

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Focus on Improving Materiel Readiness

Problem: Inefficiencies and sub-optimization

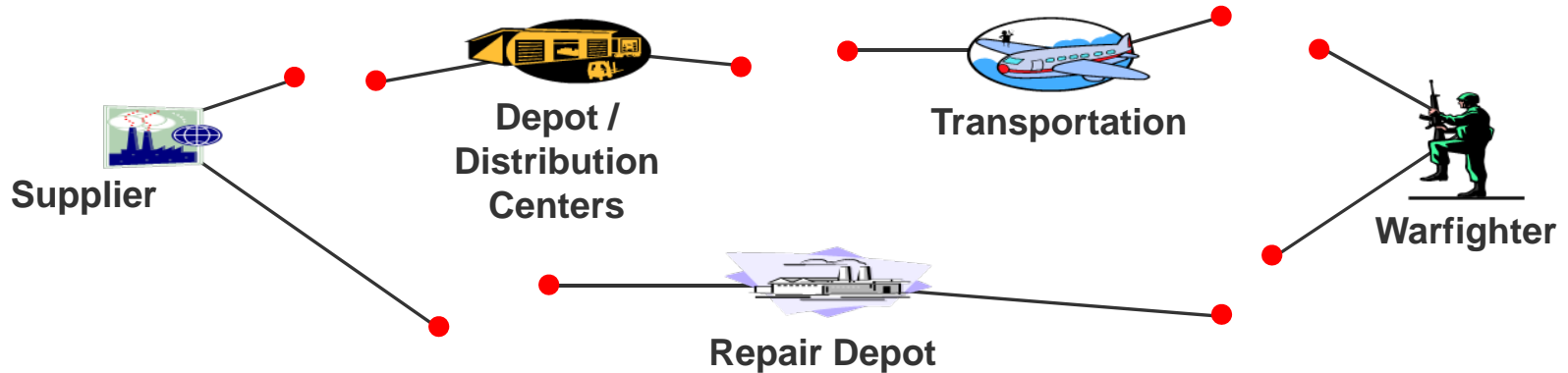
- Today, DOD logistics systems are not integrated, creating inefficiencies and fostering ineffectiveness
- Efforts to optimize the DOD supply chain are 'compartmentalized' within segments, resulting in sub-optimized E2E performance

Resolution: A Joint Supply Chain Architecture (JSCA)

- Provide recognition of going to war as a joint force – E2E focus
- Establish a common lexicon and metrics to advance the joint supply chain
- Create a top level architecture: relevant, consistent, and identification of gaps and overlaps
- Develop a DOD benchmarking capability to identify best practices and improvement opportunities
- Fix/Improve interfaces

JSCA Benefits DOD Maintenance and Repair Activities

Maintenance activities can realize significant benefits by improving alignment of functional interfaces



Properly aligning the supply chain to precisely and reliably support maintenance activities at all levels includes:

- Translating work package requirements to individual parts requirements
- Integrating maintenance planning and technical data with RBOMs
- Ensuring that all required parts are available when needed (100% kit complete)
- Balancing repair capacity and new inventory procurement with requirements
- Ensuring efficient and “intelligent” return of carcasses to the depot

JSCA Benefits are Outcome Focused

The Warfighter benefits from implementing JSCA

- Create E2E alignment from Warfighter's perspective
- Improve interfaces among disparate elements of the supply chain
- Drive efficiencies through focus on outcomes and E2E performance metrics
- Provide comparable benchmarks across DOD and weapon systems
- Sharing comparable performance measures and best practices across weapon systems

JSCA Identifies Systemic Supply Chain Issues

JSCA weapon system diagnostics have identified systemic improvement opportunities

- Configuration tracking is inconsistent, making repair planning and work package material procurement difficult
- Visibility of inventory is limited, forcing redundancy to ensure material is available for repair
- Cost implications of multiple variant supply chains and tradeoff costs of life-cycle sustainment decisions are not well understood
- Repair Turn Around Time (RTAT) hiccups with 100% kitting deficiencies

**100% of the Parts
for 90% of the Repairables**

Versus

**90% of the Parts
for 100% of the
Repairables**

JSCA Addresses Tangible Readiness and Cost Benefits

A Program Manager's Observations of the JSCA Process

- The diagnostic captured the entire weapon system's end-to-end supply chain that is normally viewed in pieces
- Provided a broad view of the supply chain to all activities on the program fostering better communication on the subject
- Provided information to justify budget requests to change maintenance practices

JSCA Drives Supply Chain Effectiveness and Efficiency in Support of the Warfighter

- Creates of common end-to-end supply chain metrics
- Identifies best practices and efficiencies through Weapon System benchmarking
- Precise and reliable delivery of material resulting in increases to A_M
- Reduces cost of repair and decreases RTAT
- Improves forecasting of consumables to reduce out of station work
- Aligns and integrates the Return and Repair processes
- Provides a positive return on investment – JSCA pays for itself many times over