

# Army Logistics Requirements for the Future

## Adaptive Enterprise Transformation: Sense and Respond Conference

3 December 2003

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# TOPICS

- **Log technologies and processes employed during OEF and OIF**
- **Shortfalls**
- **The changing battlefield**
- **G-4 focus**
- **Looking to the future**

# Log Technologies and Processes Employed During OEF and OIF

- **Fast Sealift.** Theater Support Vessel
- **Pre-positioning of equipment**
- **AP3 (Army Power Projection Program)** Enhanced strategic mobility and deployability



- **LCOP**
- **Co-location of Log C2**
- **Civilians on the battlefield**

# Log Technologies and Processes Employed During OEF and OIF *Automation*

## ➤ Enterprise Resource Planning



## ➤ **Intransit Visibility.** Hand-held interrogator, Radio frequency tags, Movement tracking system

## ➤ **TC-AIMS II** (Transportation Coordinators Automated Information for Movements System)

## ➤ **FBCB2** (Force XXI Battle Command Battalion/Brigade and Below)



# OIF SHORTFALLS

- Ability to “See” requirements
- Distribution (w / In-Transit Visibility)
- Ability to respond to rapid re-task organization
- Enterprise Integration

# THE FUTURE BATTLEFIELD

## ➤ Characteristics

- Widely dispersed
- Decentralized execution
- Rapid reorganization
- Threat to lines of communication
- Joint and Combined

Expectations  
Have Changed



# THE FUTURE BATTLEFIELD

## ➤ Future concepts

- Highest reliability we can afford (Key Performance Parameters)
- Use of new technology to reduce requirements

Common  
Components

Diagnostics/  
Prognostics

Fuel  
Cells

Advanced  
Wireless  
Technologies

WATER PRODUCTION / PURIFICATION



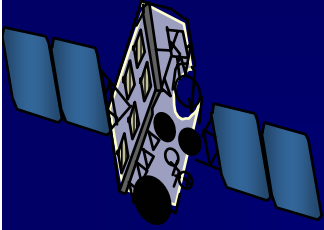
HYBRID ELECTRIC  
ENGINE



SOLDIER ROBOTS



MULTI-ROLE ARMAMENT &  
AMMO SUITE  
(DIRECT & INDIRECT FIRE)



# THE FUTURE BATTLEFIELD

## ➤ Imperatives

- See requirements across the battlefield
- Distribution system that is fast & precise

***Flexible – Responsive - Adaptable***





# G-4 FOCUS

★ **“CONNECT” OUR LOGISTICIANS**

★ **MODERNIZE THEATER DISTRIBUTION**



## CRITICAL TO SUCCESS

- Our Commitment
- Joint Integration
- Policy Modernization
- Refined Doctrine
- New Force Structure
- Standards and Discipline

★ **IMPROVE FORCE RECEPTION**

★ **INTEGRATE THE SUPPLY CHAIN**

# LOOKING TO THE FUTURE

- **Future Technologies.** Fuel efficiency through reduced consumption (i.e. fuel cells); water production, distribution and storage improvements
- **Standardized Parts.** Common component sets and standardized markings
- **Condition-based Maintenance Plus.** Diagnostics / Prognostics
- **Configured Loads.** Sustainment modules, platform embedded materiel handling
- **Advanced Wireless Technologies / Nanotechnology.** Wireless networks, personnel monitoring, machinery health monitoring
- **Improved LCOP** (Logistics Common Operating Picture)

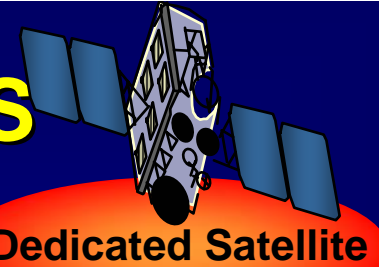
**2 Level  
Maintenance**



*A vision without  
resources  
is a hallucination.*

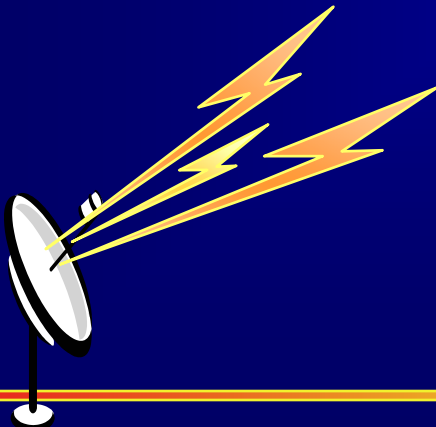
# COMMUNICATIONS REQUIREMENTS

- **24 / 7 Data Capability into the Enterprise**
- **A Log Network For Log Data**
- **ERP (Enterprise Resource Planning)**
- **VSAT (Very Small Aperture Terminal), CAISI (Combat-Service Support Automated Information System Interface), & RFID (Radio Frequency Identification) w/ every SARSS (Standard Army Retail Supply System) Site**
- **Plug / Un-plug as Required**



Enable "Sense and Respond" Logistics

CAISI OMNI ANTENNA



# TAKE AWAY MESSAGES

- We must have better connectivity
- We must modernize theater distribution
- We must leverage technology to reduce requirements on the battlefield



**QUESTIONS?**