



Deputy Commandant for Installations & Logistics brief to Maritime & Land Supply Chain Conference

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*"If you don't like change,
you're going to like
irrelevance even less..."*

**GEN Eric Shinseki (USA),
Army Chief of Staff**

The Environment – Our Mandate

“Just as U.S. forces are becoming more agile and capable of rapid action and are exploiting information advantages to increase operational effectiveness, . . . processes that support them need to develop similar attributes.”

-Quadrennial Defense
Review, 2006

Quadrennial Defense Review Report



February 6, 2006

Agenda

**Logistics
Modernization**

- USMC Logistics Modernization
- Logistics Chain in Theater
- Emerging Capabilities



USMC Logistics Modernization Focus on the Deployed MAGTF

- **Enhanced Battlefield Capabilities**
 - **Tactical Focus; Deployment and Employment**
 - **Deployed vs Garrison-focused Organization**
 - **Comprehensive Doctrine/Policy Review and Rework**
- **Future Warfighting Capabilities (EMW/STOM/Seabasing/DO)**
- **Naval/Marine Air-Ground Task Force (MAGTF)/Joint Logistics Integration**



In order to...

- **Improve support to the MAGTF in the maneuver**
- **Garrison configuration the same as deployed and...**

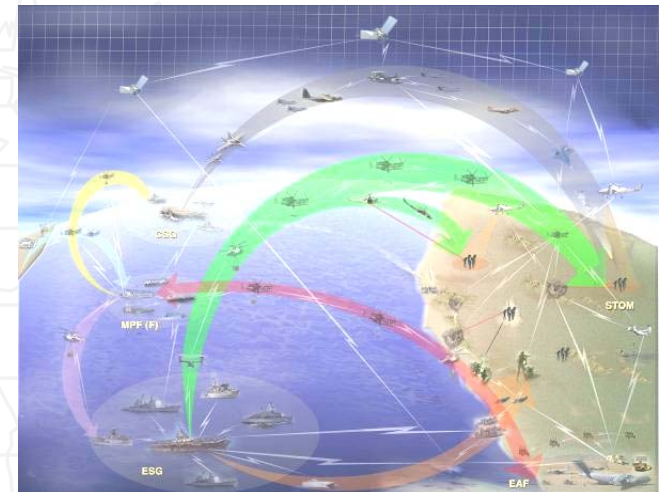
IN THE FIGHT!

USMC Logistics Modernization Initiatives

- **People/Organization**
 - Marine Logistics Group
 - Training and Education
- **Process Realignment**
 - Maintenance
 - Supply
 - Distribution
- **Technology**
 - Bridge Systems
 - GCSS-MC
 - Autonomic Logistics
- **MAGTF/Naval/Joint Log Integration**
- **Army Partnership**

People Processes

Technology



The Operational Environment

- **Widely dispersed operations** – *Demands a globally-distributed concept of support*
- **Increased contractor support** – *>180 contractors with an Marine Logistics Group; multiple supply chains; complicated tactically*
- **A new enemy** – *Knows that our logistics capability gives us staying power*
- **Joint, inter/intra-agency & multinational** – *Scope & complexity has expanded dramatically*
- **Unsecured LOCs** – *Entire logistics pipeline is a target*
- **Resource Pressure** – *We must become more efficient*

Logistics Chain in Theater

Logistics Modernization

- **Robust SMU/Intermediate Supply Point reqmt in Theater**
- **Establishment of CDDOC at the Operational Level**
 - Similar construct as DDOC at Strategic Level
- **DPO, DLA, CENTCOM and the Warfighter**
 - Capacity Management/ITV tools used to improve distribution pipeline
 - Management of Channel Flights = responsive sustainment support
 - Goal: Reduce USMC inventory by 50%
 - USMC Intermediate Supply Point in Iraq = 6th largest DLA customer
 - Open distribution pipeline from Jordan for
 - Perishable Food, Water, Fuel, Commercially Procured Items

DPO Concept/CDDOC = force multiplier

CONUS

SPOE
APOE
DLA

Problem: The flow of sustainment from CONUS DLA drives large stock levels to support forward deployed units. Inter-theater transportation costs are also significantly higher.

Al Asad

Ramadi

Fallujah

DS CLB

GS CLR

DS CLB

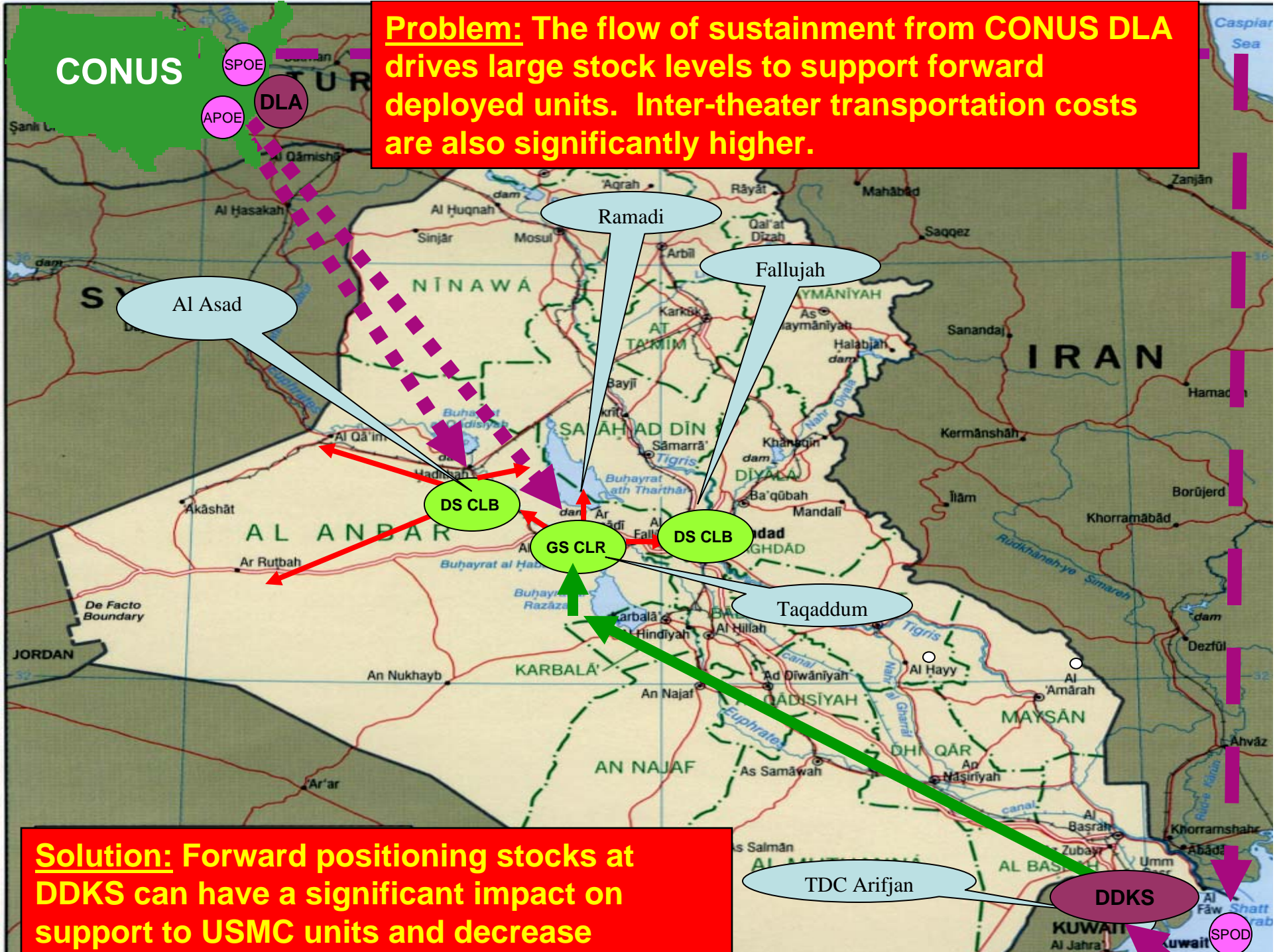
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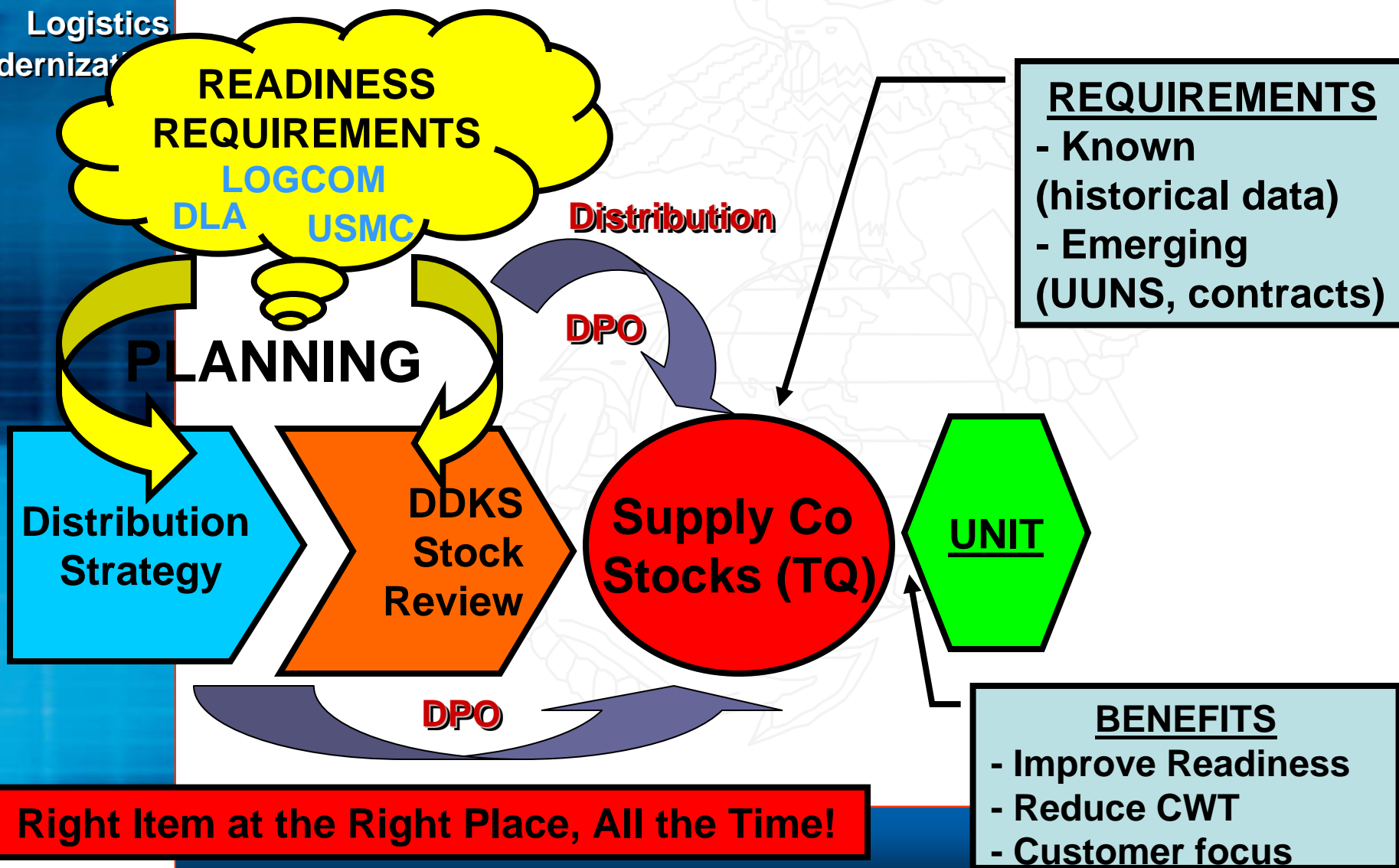
SPOD

Solution: Forward positioning stocks at DDKS can have a significant impact on support to USMC units and decrease



Stocking Methodology

Logistics
Modernization



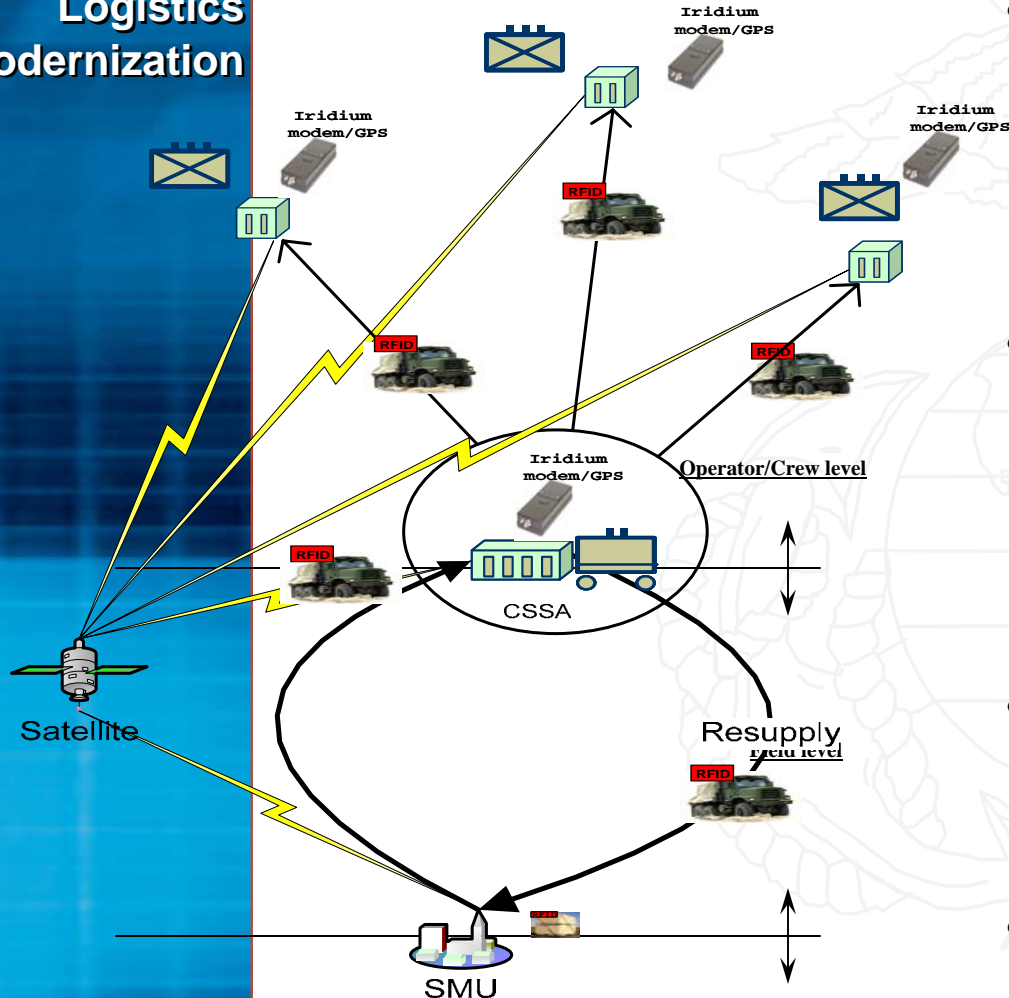
Emerging Capabilities: RFID

- Active RFID tags used on all overseas shipments
 - Read/write capability augmented by Portable Kits (PDKs/EEDSKs) ... and Army interrogators
 - Unprecedented intransit visibility
- W2W - RFID tag associated with tracking terminal – provides last tactical mile asset visibility/accountability
- Passive RFID pilot underway
- Active and Passive RFID integration next step



Emerging Capabilities: Virtual Kitting

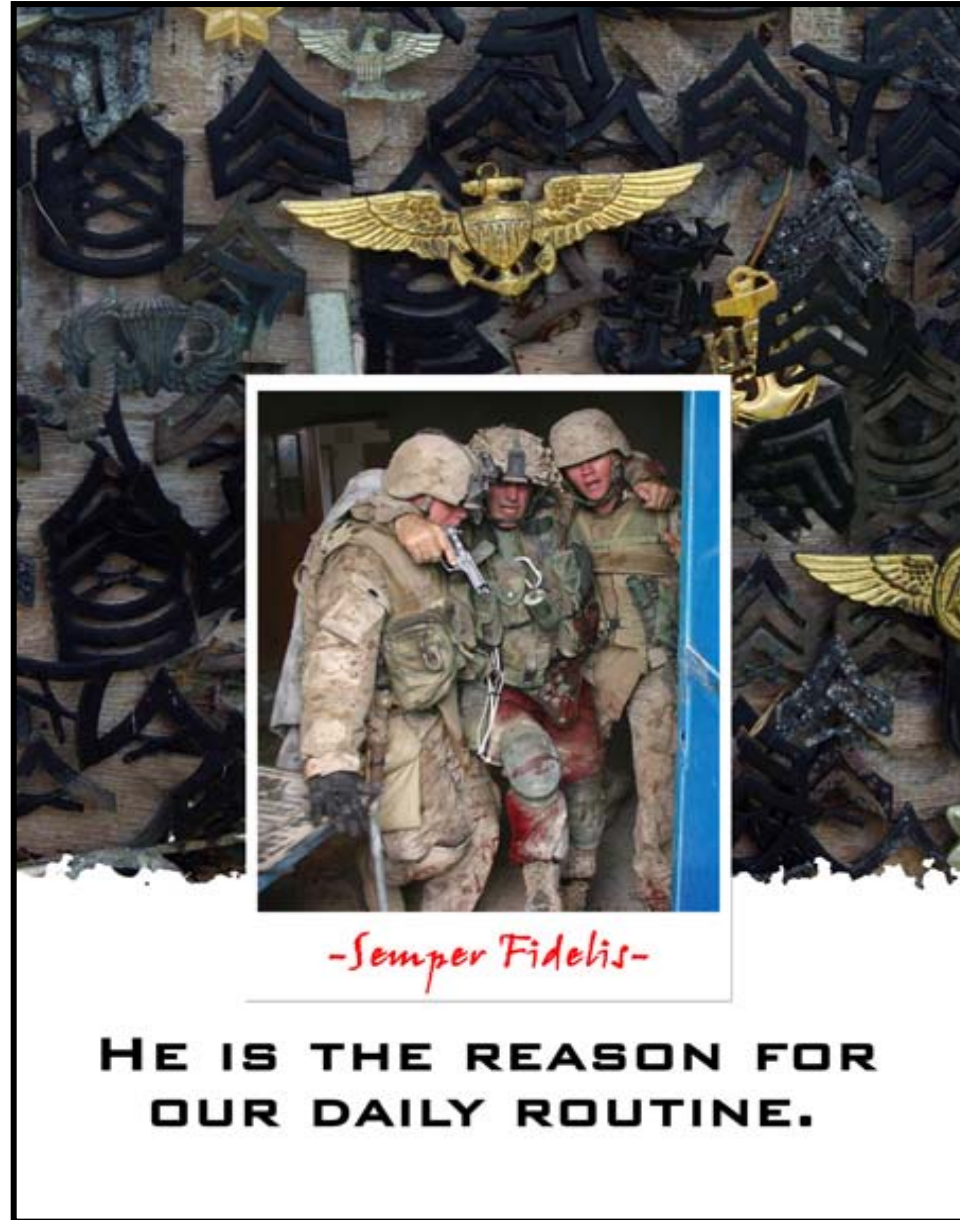
Logistics Modernization



- **Providing Capabilities vs. Parts**
- **Every “Virtual Kit” is a maintenance capability**
 - Utilizing existing RFID technology to track and push capabilities
 - Capabilities pushed to Expeditionary Capability Sets based on automated resupply transactions
- **Capabilities positioned based on ROM**
 - Increases operational availability through distribution while improving ground maintenance support capabilities.
 - Contact teams deploy with capabilities tailored to meet expected maintenance problems
- **Responsive and visible**
 - Commander’s requirement filled forward
 - Maintenance capability visible within and across Expeditionary Capability Sets.
- **Focuses supply in support of the warfighter’s maintenance effort**

Sustainment level

Logistics
Modernization



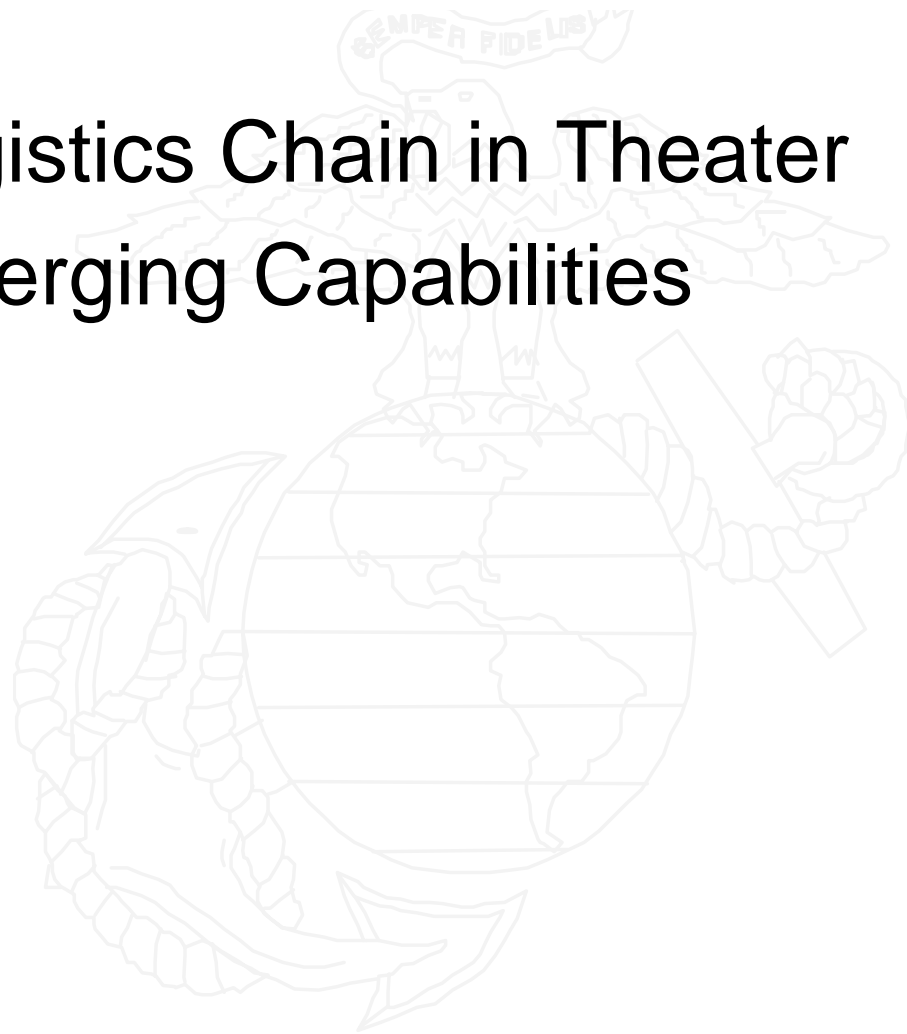
-Semper Fidelis-

**HE IS THE REASON FOR
OUR DAILY ROUTINE.**

excellence in logistics...supporting excellence in warfighting

Backup Slides

- Logistics Chain in Theater
- Emerging Capabilities



Today's Distribution Process

- No process owner: multiple “belly-buttons” within the MEF
- Cumbersome/outdated/functional and process stove pipes, policies and enablers
 - **JOPES/MILSTRIP/MILSTAMP /Commercial**
- Different processes, people and systems for garrison and theater distribution (SE and CSSE)
- Focus on garrison processes and efficiencies
- Associated functions (PE&B, DSU, PP&P, S&R, TMO) are currently vested in different command structures
- Gaps in IT and processes
- No consistency in processes between the MEFs
- Numerous Supply Chains depending on how the requestor orders the product
- Distribution Planning Deficiencies



RFID – Pilots/Implementation

Logistics Modernization

- Passive RFID Pilot Program at Camp Lejeune
 - Utilize Passive RFID tagged shipments from DLA
 - Focus on distribution point for inbound shipments (TMO)
 - Middleware will feed Passive RFID data to existing system
 - Feed to supply/warehousing system planned
- Active/Passive RFID Integration at I MEF
 - Integrated Supply Inventory System (ISIS) will scan Passive RFID tag data to an Active RFID tag
 - Establishes parent/child relationship
 - As case/pallets are pulled from container, Passive RFID tags are read and the active tag inventory is updated
 - Satellite link provides global data communication
 - Provides accurate, near real-time tracking of assets



Expeditionary Warehouse Management System

ISIS

ITV NETWORK

Shared Data Warehouse

Ethernet Connectivity
 USB Flash File Transfers
 SALTS
 EMAIL

Provide Data Transmission
 Provide Global Position Data
 Iridium & Cellular, Communications

Current Inventory Levels
 LUBF DATASETS

Read / Write Active Tags , provides in transit inventory visibility
 300 ft read / write range ; identify container contents, search by NSN



Read Passive / Active RFID Tags and Barcodes.
 Inventory Management of Receipts, Issues, Inventory Level & Transaction History
 Import and Search
Virtual Kit Management



Powered via HUMVEE, Solar, Direct Power or Batteries



USMC Logistics Challenges

Operational...

- Readiness: Equipment, Personnel, Supply, Training
- Battlefield Stress on Equipment
 - Repair
 - Replace
 - Remain Behind
- Resetting the Force
- Equipment Cross-leveling for training and contingencies

Transformation...

- Battlefield requirements
- Change Management
- Communications

