# Autonomic Logistics and the Marine Air Ground Task Force (MAGTF)

NDIA, March 2000

Colonel R. M. Nixon Head, Logistics Vision and Strategy Center Headquarters, U.S. Marine Corps (703) 695-6101

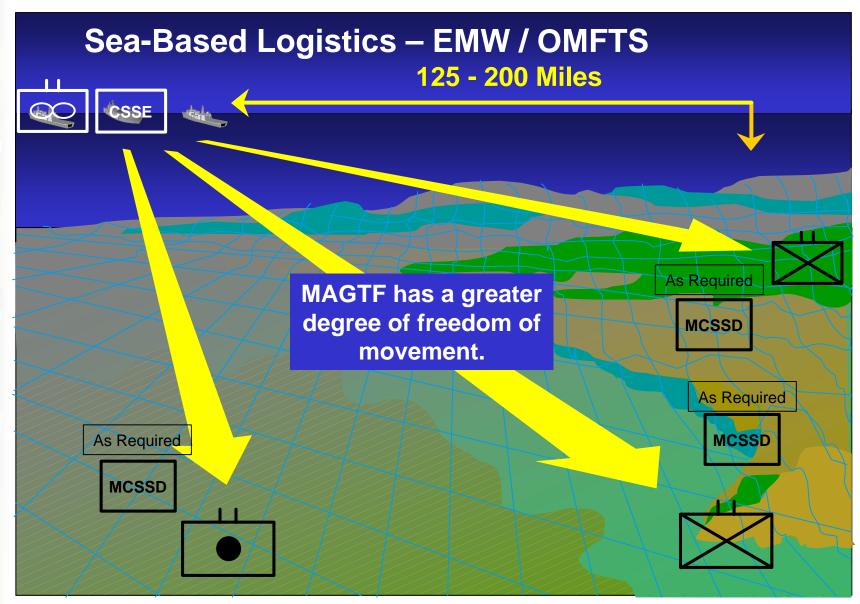


- Command and Control
- Combat Service Support
- Materiel Life Cycle

Autonomic Logistics has been validation by the Marine Corps Combat Development Process and slated for development and implementation.

Autonomic – An involuntary action.

# **Future Logistics Concept**



### **Operational Need**

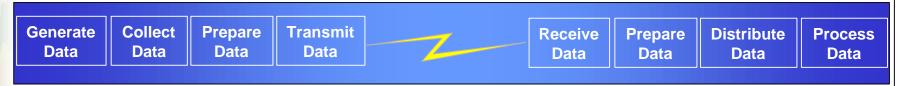
#### Minimum PHASE I:

- Identity
- Location
- Fuel Levels
- Ammunition Levels
- System Health
  - Is the system operational?
  - What is the discrepancy?

### **System Concept**

In the future data will be transferred from ground tactical equipment to supported applications automatically.

#### **Scope of Autonomic Logistics**



**Automatic Process** 

**Electronic** 

**Automatic Process** 

#### **Real to Near-Real Time**

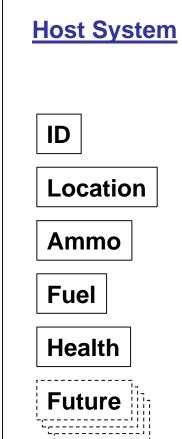
- Significantly reduces reporting burden.
- Data is timely and accurate.
- •Data can be collection can be event driven and/or when required.

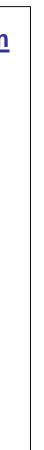
#### MAGTF Log C2 – Includes Autonomics **DATA PIPE EXPANSION** Personnel **Fiscal** Parts /Fuel/Ordnance Health **HQMC Transactions** Requirements **Theater** Combatant **Manpower Distribution** Commanders Vehicle **CINC/JTF** Condition **Direction UOC's NAVSUP GCSS-MC NAVAIR** CLC2S Interface Commercial **Terminals** CLC2S **Support Tactical Operational Strategic** (Units) **DLA Autonomic** CLC2S Logistics Location of J4/JS - OSD **Output to** JFRG / TC-AIMS II Units MEF / MSC Integration Direction Warfighter **Autonomic Logistics Theater Autonomic Portals Outputs to MATCOM** Company Convoys Logistics Locations Feed 6 Land-Based &/or Sea-Based Logistics **Globally Supported Logistics**

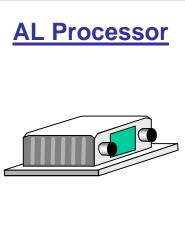


- Capitalizes on existing technology and systems.
- Plug and play components

- Simple
- Scaleable
- Upgradeable





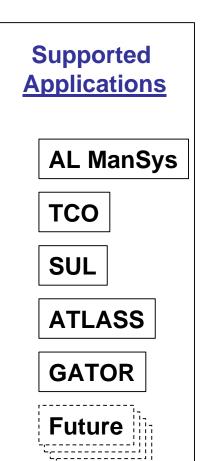


Programmable: Can be upgraded as required.

### Communication <u>Device</u>



- •EPLARS
- •SINGARS
- SATCOM
- •JTRS
- •COMMERCIAL



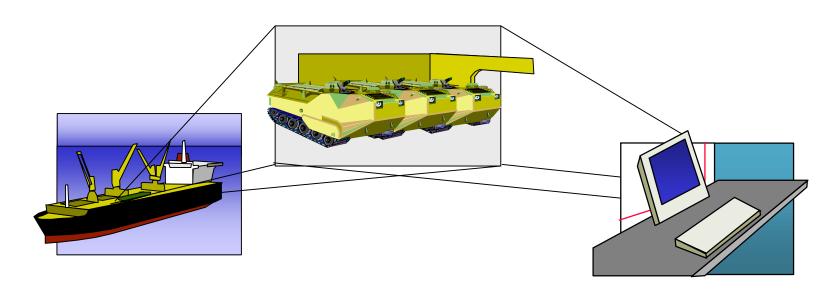


### **Concept of Employment**

- Command and Control (C2) Basic system data is compiled to provide commanders real to near-real time assessments of operational readiness.
- Combat Service Support (CSS) All system data is used to enhance CSS situational awareness, planning, and responsiveness.
- Materiel Life Cycle (MLC) System health data enhances the ability to project and implement materiel life cycle support and to develop improvements to the host systems.

## **Future Capabilities**

- •Standardized onboard sensor systems.
- •Cargo Identification people and things
- Advanced Prognostics/Diagnostics
- Remote repair
- Expansion to Smaller Systems



### **Questions**

"We must organize and operate in such a way that commanders have <u>absolute confidence</u> that required <u>support will be provided</u> when and where it is needed."

