

EXWAR Challenges / Way Ahead in the Future Joint Operating Environment: An MSC Perspective

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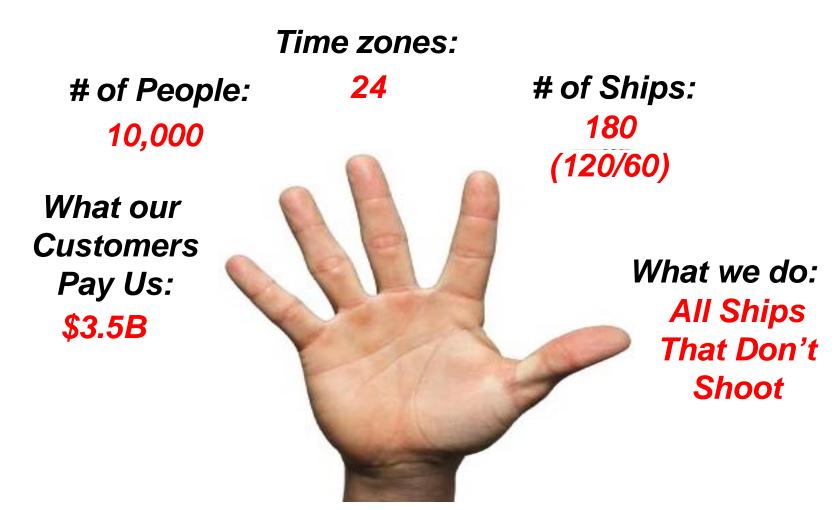
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Provide efficient sea transportation, combat-ready logistics forces, and reliable special mission ships for the Department of Defense in peace and war.







MSC Across the Spectrum of EW



- Hospital Ship deployments
- Foreign Humanitarian Assistance
- Theater Security Cooperation
- Prepositioning
- Afloat Forward Staging Base
- Command Ship





Mission-focused... Value-driven



Sea Basing - Components



Carrier Strike Group



Maritime Prepositioning Group



Combat Logistics Force Ships

Amphibious Ready Group / Marine Expeditionary Unit



Connectors



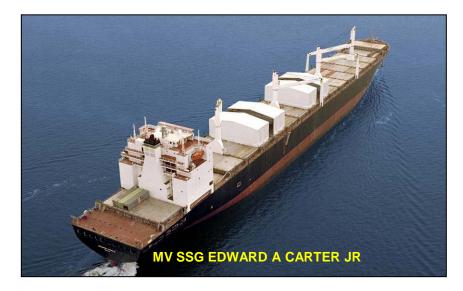
Coalition Force and Sister Service Ships





- Selective Stowage / Retrieval
- OPDS (next generation)
- Energy Efficiency
- Robust C2
- Double hulling
- Force Protection Measures
- Joint Army/Navy Integrated Software Management of JHSVs
- Ship Scheduling Optimization Software





- Combatant Commander required partial offload of ammo in theater
 - In-theater, in stream offload of 863 containers (34% of load)
 - Required reconfiguration due to stowage arrangement and lack of lay down space
 - Total time 21 days
 - Estimated container over stow was 20% average (approx 400 additional moves total)
 - Avg rate of discharge was 2.5-3.5 containers/hour

Selective Stowage / Retrieval can broaden the application range of prepositioned shipping from FHA and TSC to full-scale deployment.



Offshore Petroleum Distribution System



- Is one OPDS enough?
- Are 8 miles of pipe enough?

Energy Initiatives

- Cargo light replacement
- Magnetic Coupling Variable Speed Drive •Reduce energy consumption in cargo cooling systems
- Energy Management Plan for LMSRs
- Hull Performance Monitoring System •Optimize frequency for cleaning running gear and scamping
- Hull Coating Systems
- Performance-based Navigation
- Adaptive Steering
- Improved Efficiency HVACDH

Energy initiatives are not just about reducing propulsion fuel consumption. MSC operates ships across the full OPTEMPO spectrum.



- Selective Stowage / Retrieval
- OPDS (next generation)
- Energy Efficiency
- Robust C2
- Double hulling
- Force Protection Measures
 - •Anti-Terrorism
 - Counter-Piracy
- Ship Scheduling Optimization Software
- Joint Army/Navy Integrated Software Management of JHSVs



- Non Traditional Prepo Mission Tasking
 •TSC
 - •AFSB
 - •FHA
- JHSV
- Constrained Budget Environment
- Service Life Extensions
- Limited Use of National Defense Waiver
- Improved information management and knowledge warehousing will yield greater business efficiencies



Questions?

www.msc.navy.mil

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