

Marine Corps Seabasing Requirements and Strategy

NDIA Expeditionary Warfare Conference

7 October 2010

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- MPF Enhancements
- Naval Integration
- Ship & MAGTF Modeling and Simulation
- R&D Initiatives



MPF Enhancement Strategy



- Roll-on roll-off cargo ships, coupled with mobile landing platforms, provide key enabling capabilities to fully leverage existing MPS capabilities
 - Selective offload
 - Increased ship stowage capacity allows for reconfigured loads across MPSRON for selective offload
 - In-stream offload of Large, Medium Speed RO/RO (LMSR) with Mobile Landing Platform (MLP)
 - Increased connector lift capacity with MLP
 - Increased ship-to-shore throughput

MLP-LMSR Interface





ICODES Load Planning





Armor/Protection



- Armored gun mounts –
- MTVRs/ECV/HMMWVs w/some type of gun turret/armor
- Additional vehicle height and weight impacts embarkation, e.g. limits areas on ships that these vehicles can transit and be stowed





 Depending on which variant of armored gun mount is added (MCTAGS, OGPK, etc.), there is a height increase between 20in – 30in per vehicle



Engineer Equipment

TRAM



- New TAMCN B0063 replaces B2567
- Addition of armor to the cab one key difference

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Engineer Equipment



- Various contributors to increases in dimensional data, e.g. spare tire strapped to roof of the TRAM
- Techniques such as this are common practice

Loading Considerations



• ECV transiting from LPD 15 Upper V to Lower V with approx. 4" of clearance











LHD 5 Hangar Bay

All this <u>and</u> four aircraft













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Additional Lashings

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MTVR at 48,000 lbs (armored cab with mobile load) Requires 8 tie-down points



Holistic View MAGTF Requirements:



Increased Weights/Density Impact Deck Strength, Ships Stability...

Ship & MAGTF Modeling and Simulation







Geography and Comms

Technical Direction & Organizational Communication

Technical Management & M&S Data Flows





Shipboard Selective Access and Retrieval System (SSARS)

Background

- Seabasing Integration Division-led project with Naval Surface Warfare Center – Carderock, Maryland Division
- SSARS is a ship-agnostic solution to the concept of selective access
- SSARS lifts and moves tracked and wheeled vehicles as well as containers
- TRANSCOM awarded SID \$5.8 million Research and Development funding for Fiscal Year 08 to FY10
- Continuing R&D execution in FY11

Heavy Vehicle Solution

Light Vehicle Solution



Container Solution



Future



- The SSARS proof-of-concept demonstrators are omni-directional, electric-hydraulic, remotely controlled, and environmentally friendly
- One ORLAM ramp-pair provides the C-LMS tractorturret drive and battery power source
- Leading, unique battery technology implementation
- Dedicated Ro/Ro C-LMS currently in design stages
- Multiple patents pending on new technology
- Wide applicability for this capability exists; transition interest expected from OPNAV
- PM SSARS seeking partnerships for incremental, additional development
- Mid-year JCTD briefed & planned for OSD consideration Spring FY11



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