



*Joint Intermodal Working Group (JIWG)  
Standards Committee*

**Joint Standardization Board for  
Intermodal Equipment**

Kevin Cowley  
Naval Inventory Control Point  
JIWG Standards Committee  
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# What is the Joint Intermodal Working Group (JIWG)

- **Authorities:**

- JIWG is lead organization under USTRANSCOM/DPO for joint modular intermodal container/platform standards, system development, & policy coordination
- JIWG is validating authority for new modular container/platform initiatives
- Honorable Kenneth Krieg - The Undersecretary of Defense for Acquisition, Technology and Logistics– 3 Feb 06 letter of authorization

- **Composition:**

- Membership (voting): USTC (chair), Joint Staff/J4, Services, & DLA
- Advisors (non-voting): OADUSD(TP), SDDC/AMC, Joint Munitions Command, Defense Packaging Policy Group, & Defense Standardization Program Office
- COCOMs, other DOD/government & industry by invitation

- **New JIWG Mission:**

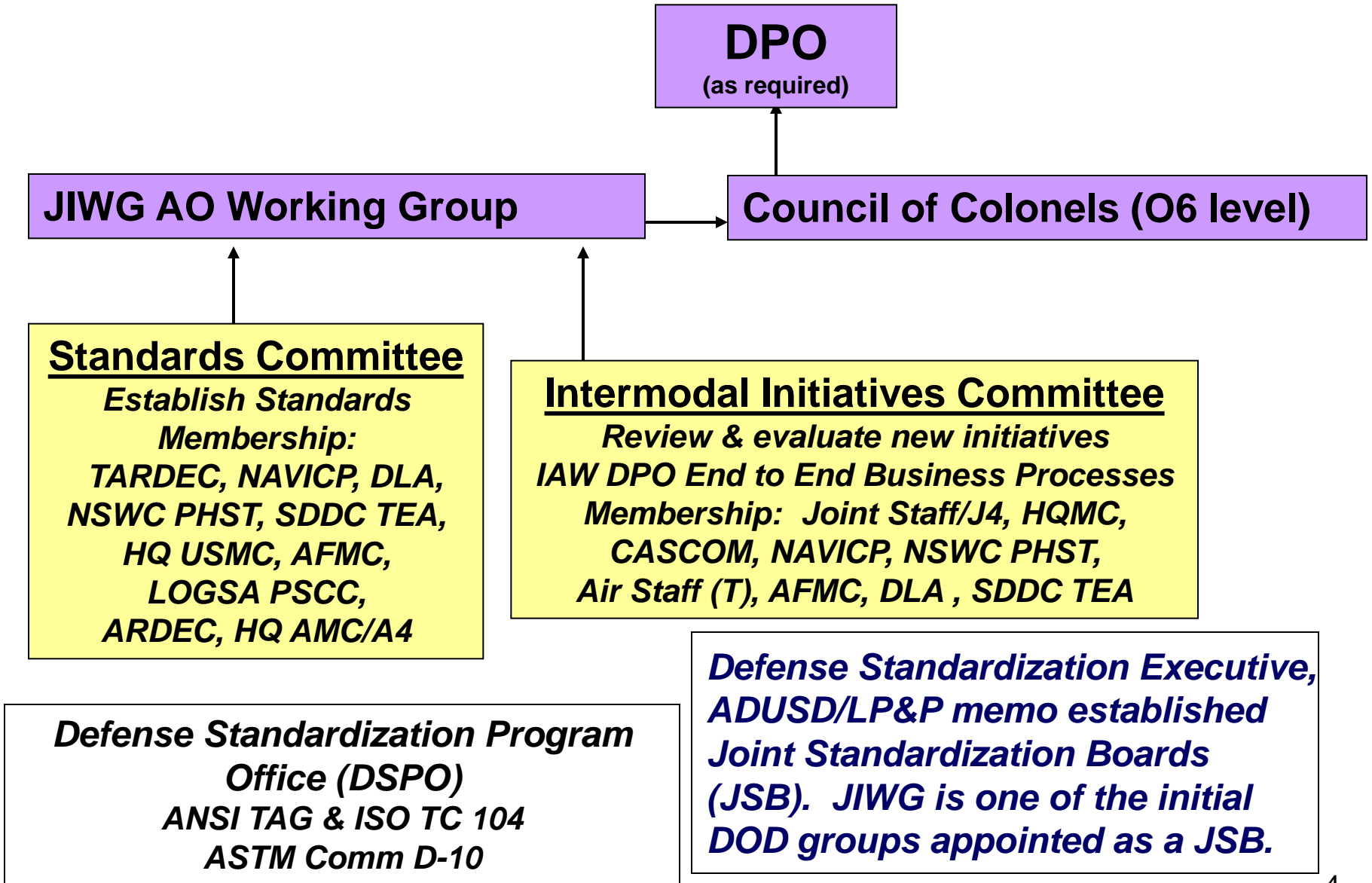
- Facilitate & manage intermodal equipment initiatives
- Establish DOD standards; enhance integration & interoperability
- Define joint doctrine, tactics, techniques & procedures; recommend DOD policy to improve E2E distribution effectiveness & efficiency
- Develop solutions to intermodal equipment problems & issues

# JIWG Scope

**Assets, infrastructure, equipment, systems, procedures & processes for E2E logistic support**

- **New equipment:**
  - Size/dimensions & physical characteristics
  - Coding, marking, & identification
  - Handling, lift fittings, & locking devices
  - Safety/material condition standards
- **Information Technology**
  - AIT/RFID & asset management/visibility systems
  - Data standardization & information requirements
- **Policy & doctrine, tactics, techniques & procedures**
- **Joint/DOD terminology & definitions**
- **Studies**

# JIWG Structure/Committees



# **JIWG Standardization Goals**

- **Engage industry partners: air, surface, ocean, intermodal, retail, etc.**
  - **Intermodal Association of North America**
  - **ASTM, MHIA & ISO**
  - **National Defense Transportation Association**
- **Identify and engage other DOD/government forums working actions related to intermodalism**
  - **DOD Standards Conference**
  - **NATO**
- **Achieve common DOD/industry standards, where possible**

# Standards Committee Mission

- **Charter approved Dec 06**
- **The mission of the JIWG SC is to develop standards IAW DOD 4120.24-M, Defense Standardization Program, Policies & Procedures or Non-Government Standards as applicable.**
- **JIWG SC will function as the Joint Standardization Board for Intermodal Equipment (JSBIE) to initiate, harmonize and coordinate intermodal equipment standardization activities.**  
**JSBIE will:**
  - Draft standards for intermodal equipment that have reduced inventory, shorter logistic chains and improved readiness
  - Establish liaisons with various standards bodies and industry
  - Enhance integration and interoperability
  - Provide the interface for commercial/military integration in order to optimize DOD distribution process and improve end-to-end distribution effectiveness and efficiency
- **Advisors include DSPO, DPPG, USTC - J5, OSD ITP J3**

# Standards Committee

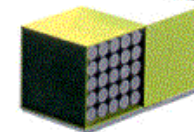
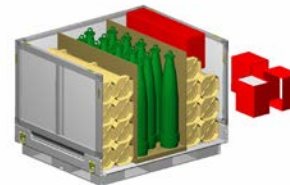
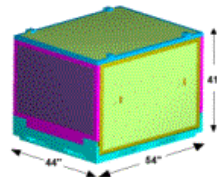
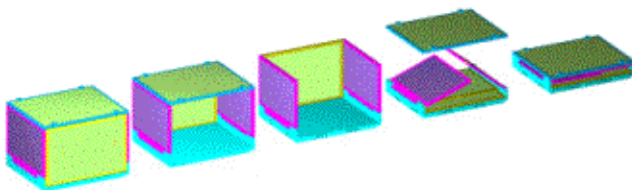
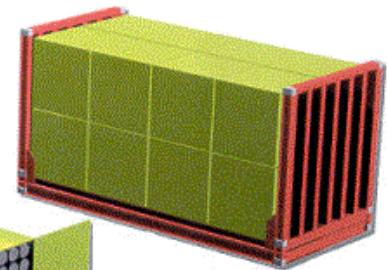
## Current Efforts

1. Develop Joint Modular Intermodal Distribution System (JMIDS) Standards
  - Transportation Module/Configuration (Joint Modular Intermodal Container) (Preliminary draft Standard – Nov 06)
2. Develop Standards to address interoperability issues for various intermodal assets to improve End-to-End (E2E) distribution process
3. Advance the Military utility of intermodal containers through ISO Technical Committee 104
4. Address multinational compatibility and interoperability for intermodal platforms and transportation/handling assets through working with NATO

# Current Initiatives for Common Intermodal Modular Containers & Platforms

Multiple sized containers that combine to effectively build and break down a 20/40-foot ISO container or 463L pallet into pallet/module sized loads. Goal is to reduce overall theater logistics footprint, including retrograde, while complementing automated loading, handling and storage systems.

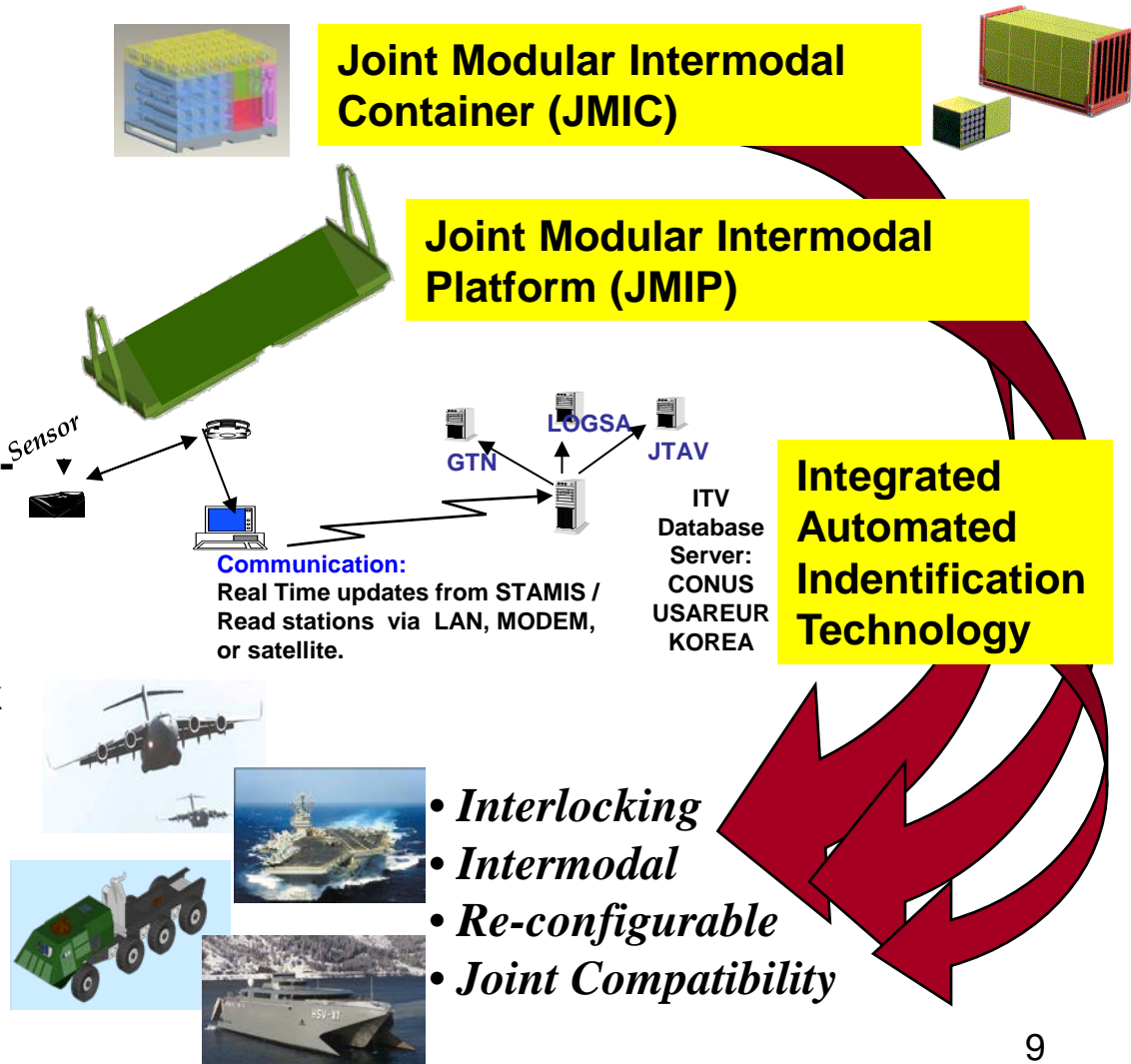
- ***Army/Navy Joint Modular Intermodal Distribution System (JMIDS) Joint Capability Technology Demonstration (JCTD) (FY06-08)***
  - Joint Modular Intermodal Container
  - Joint Modular Intermodal Platform
  - Integrated AIT
- ***Naval Logistics Initiative (NLI)/USTRANSCOM Unitization Demonstrations (Commercial Off-the-Shelf) (FY05-07)***





# Joint Modular Intermodal Distribution System (JMIDS) Joint Capability Technology Demonstration (JCTD)

- JMIDS JCTD will demonstrate, analyze and transition joint service, all-mode containers and platforms that are equipped with Automated Identification Technology (AIT)
- JMIDS will permit efficient, seamless, and visible movement of supplies through the distribution system from CONUS-based depots and vendor locations to tactical end users, including movement through a Seabase to support forward operating expeditionary and task force units
- Goal of this JCTD is to make significant contributions to the agility, flexibility, efficiency, effectiveness, responsiveness, and interoperability of the Joint Distribution System



## JMIDS JMIC Features - Container

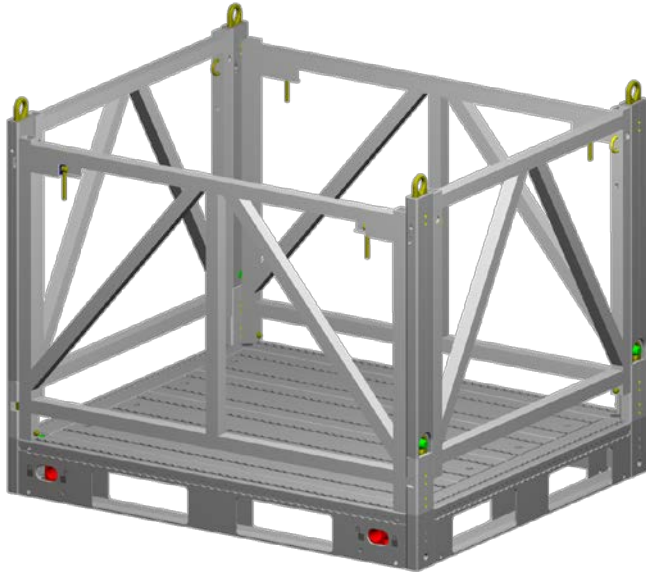


**3000 lb max gross weight**

**Outside dimensions – 51.75”L X 43.75”W X 43”H**  
**Stacking Height – 40.75”**  
**Inside dimension – 48.75”L X 40.75”W X 33.18”H**  
**Collapsed Height – 15.18”**  
**Collapsed Stacking Height – 13.56”**  
**Tare Weight – 317 - 329 lbs**  
**Cover weight – 36.75 lbs**  
**Two removable side panels (26.5 lb ea)**  
**Assemble w/o tools**  
**Collapsed and secured w/o banding**



## JMIDS JMIC Features - Rack



**Outside dimensions – 51.75”L X 43.75”W X 43”H**  
**Stacking Height – 40.75”**  
**Inside dimension – 48.75”L X 40.75”W X 34.68”H**  
**Collapsed Height – 14.31”**  
**Collapsed Stacking Height – 12.06”**  
**Tare Weight - 289 lbs**  
**Two removable side frames (26.5 lb ea)**  
**Assemble w/o tools**  
**Collapsed and secured w/o banding**

**3000 lb max gross weight**



# JMIDS JMIC Features – Intermodal



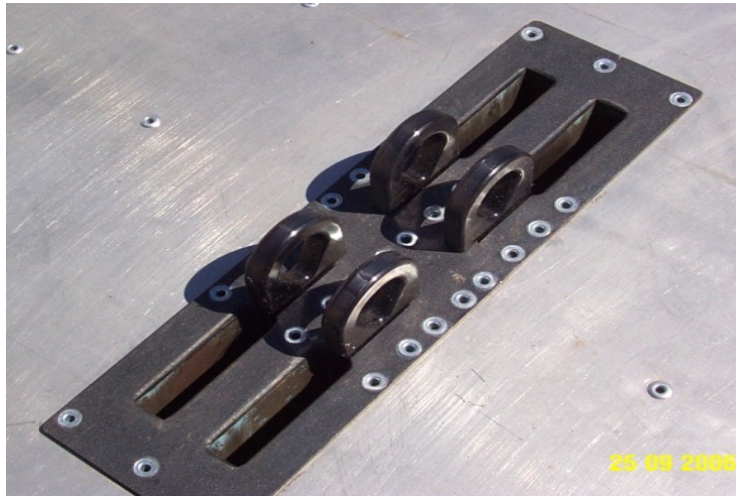
**463L Air Pallet**

**ISO Container**



**On a JMIP**

# JMIDS JMIC Features - Interface Fittings



JMIP fitting matches JMIC interface fitting



Folded interface deck fitting for non-JMIC application



JMIP

# Areas of standardization for JMIDS/JMIC

Standard for configuration and interface (Interface MIL-STD):

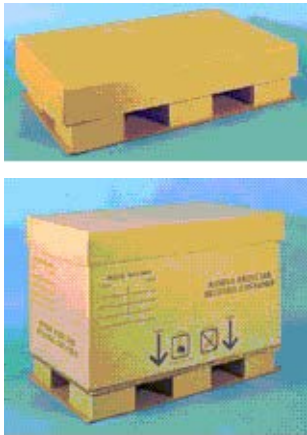
- Define interface to increase interoperability and interchangeability
  - Lifting and tiedowns (MIL-STD-209, STANAG 4062)
  - Stackable
  - Locking interfaces
- Size footprint / internal dimensions
- Compatible with transportation modes
- Compatible with common/joint handling equipment
- Gross weight capacity/strength tests

Specifications based on the standard tailored to user requirements for transportation modules and platforms:

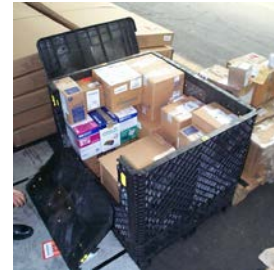
- Accessibility to contents
- Interlock capability
- Collapsible to minimize transportation footprint of empty containers
- Durability / strength
- Service life

# NLI/USTRANSCOM Unitization Demo

## Commercial Off-the-Shelf



MUC 48"X40X45.45" 180 lbs  
Phase I – Navy Aviation DLR



Reusable Bulk Container  
(RBC) 48"x40"x41" 180 lbs  
Phase I & II – Navy Container

P2PACK 47.5"LX39.5"WX28"  
Phase I – Current DDSP



ACDS - All-mode Container Delivery System  
(comes in wide variety of sizes) – Phase I & II



Clip-Lok – Variety of  
sizes (to order)  
Phase I



Uni-Pak 48x40x45 90 lbs  
Phase II

# NLI/USTRANSCOM Unitization Demo

(FY-07)

- Perform competitive procurement of Modified COTS containers meeting a subset of JMIDS/JMIC requirements suitable for non-Class V cargo – with JMIC interfaces, lighter weight, lower cost, lower weight capacity.
- Test containers per established test plan to determine suitability for demonstration.



# NLI/USTRANSCOM Unitization Demo Contract Awards

- Contracts have been awarded to 3 manufacturers for various types and capacities of containers
  - 1500 lb Fiberglass (JMIC interface top lift)
  - 800 lb Fiberglass (bottom lift only)
  - 1500 lb Aluminum
  - 800 lb Aluminum frame/plastic sides
- JIWG SC procured developmental composite containers with DSPO funds in FY 06. Four containers received in late Dec 06 and tested in Jan 07. Containers did not perform well due to prototype construction methods and substandard fastener and hinge hardware. Composite material should be re evaluated with prototypes using improved hardware and construction methods.

# NLI/USTRANSCOM Unitization Demo Plan of Action

- Testing – Per Test Plan
  - 1500 lb containers will be tested at NSWC IHDIV Det. Earle
  - 800 lb containers will be tested at LOGSA PSCC, Tobyhanna
- Procurement of Demonstration Containers
  - Quantity TBD based on available funding and test results (probably between 100 and 200 total – at least 2 different container styles)
- Operational demonstration of containers
  - Details TBD

# JIWG SC Path Forward

- Next SC meetings - Apr 07, Jul 07 & Oct 07
- Revised draft JMIDS/JMIC Standard for review/coordination - Mar 07
- Socialization of draft JMIDS/JMIC Standard with industry and NATO standardization groups – Apr to Jun 07
- JMIDS/JMIC Standard for approval – Aug 07

# CONCLUSION

**JIWG Standards Committee:  
Working with ongoing programs to develop standards that will be based on operational needs and limitations and will promote compatibility, interoperability, interchangeability and commonality to reduce cost and logistical footprint and optimize DOD distribution!**

**Any Questions???**