TRADOC Capability Manager-Transportation
Army Watercraft Systems
**What We Are For:** Provide our Army and the Joint Force trained and ready Transporters / Logisticians and synchronize deployment and distribution to enable Unified Land Operations.

**Mission:** Train, educate, and deliver professional transporters and sustainers; develop doctrine, concepts, capabilities and force structure to deploy expeditionary forces and distribute materiel to Army and Joint organizations conducting Unified Land Operations in a JIIM environment.

**TC Vision:** Our Army’s deployment and distribution experts, effectively supporting expeditionary forces; The Spearhead of Logistics!
Fleet Overview

- **Logistic Support Vessel (LSV)**
  - AAO (8): 5 AC/3 RC/0 APS
  - AAO (8)*: 1 AC/2 RC/3 APS

- **Large Tug (LT)**
  - AAO (6): 2 AC/0 RC/4 APS
  - AAO (18)*: 5 AC/0 RC/11 APS

- **Landing Craft Utility (LCU) 2000**
  - AAO (34): 7 AC/7 RC/20 APS
  - AAO (16): 2 AC/6 RC/8 APS

- **Small Tug (ST)**
  - AAO (6): 2 AC/0 RC/4 APS
  - AAO (3): 1 AC/0 RC/2 APS

- **Barge Derrick (BD)**
  - AAO (36): 9 AC/9 RC/18 APS
  - AAO (6)*: 0 AC/2 RC/2 APS

- **Roll-On/Roll-Off Discharge Facility (RRDF)**
  - AAO (18)*: 5 AC/0 RC/11 APS

- **Causeway Ferry (CF)**
  - AAO (3): 1 AC/0 RC/2 APS

- **Floating Causeway (FC)**
  - AAO (3): 1 AC/0 RC/2 APS

- **Modular Warping Tug (MWT)**
  - AAO (6): 2 AC/0 RC/4 APS

**Summary:**
- Small density fleet
- No single OEM or Depot
- Many different configurations
- Several platforms at or past EUL
- 46% in APS (4 and 5)

*Currently short of the AAO.*
## Army Watercraft Roles & Missions

### Mission Command

<table>
<thead>
<tr>
<th>System/QTY</th>
<th>Mission/Role(s)</th>
<th>AC</th>
<th>USAR</th>
<th>APS</th>
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</thead>
</table>
| Harbormaster Command Control & Communications (HCCC) 7ea | • C2 of harbor activity and surrounding area from shore  
• Communication with harbor traffic and commercial vessels  
• Distributed operations | 3 | 4 | 4 |
| Landing Craft Mechanized (LCM-8) Mod 2 6ea | • C2 platform for logistics-over-the-shore (LOTS) operations | 1 | 1 | 4 |
| Logistics Support Vessel (LSV) 8ea | • Intratheater movement of equipment and supplies  
• Coastal and inland waterway distribution | 5 | 3 | |
| Landing Craft Utility (LCU-2000) 34ea | • Intratheater movement of equipment and supplies  
• Logistics over-the-shore  
• Coastal and inland waterway distribution | 7 | 7 | 20 |
| Landing Craft Mechanized (LCM-8) Mod 1 34ea | • Intratheater movement  
• Logistics over-the-shore | 10 | 14 | 14 |
| Small Tug (ST) 16ea | • Movement of cargo barges and floating craft within a harbor, port or LOTS anchorage | 2 | 6 | 8 |
| Large Tug (LT) 8ea | • Berthing large oceangoing vessels  
• Coastal towing and positioning floating cranes  
• Fire fighting and salvage operations | 1 | 3 | 4 |
| Modular Causeway Systems (MCS) 3 systems | • Roll-on Roll-off Discharge Facility (RRDF) provides floating platform for in-stream discharge of vessels  
• Causeway ferry provides vessel to shore transport  
• Floating causeway provides shore based platform to discharge vehicles and equipment from other watercraft  
• Warping tug is used to assemble and maneuver the RRDF/causeway ferry | 1 | 2 | 2 |
| Barge Derrick (BD) 4ea | • Heavy lift crane (up to 115 tons) to support port clearance and salvage, load watercraft to ocean going vessels, watercraft maintenance and repair | 2 | 2 | |
| Containerized Maintenance Facility (CMF) 2ea | • Fully equipped watercraft field maintenance shop  
• Configured in five expandable containers and two ISO containers | 1 | 1 | |

### Movement and Maneuver

### Sustainment

= Non-Watercraft Program Assets associated with Terminal Ops
**Logistics Support Vessel (LSV)**

**Purpose:** Provide intra-theater movement of containerized, break-bulk, and RO/RO cargo to improved / degraded ports, bare beach, and inland water terminals.

**Characteristics:**
- **Crew:** 32 (8 WO/24 ENL /24hr)
- **Full load speed:** 11.5 Knots
- **Range:** 6,500 Nautical Miles
- **Length:** 275.75 Feet
- **Draft:** 12 Feet

**Cargo capacity:**
- 37 x Strykers
- 24 x M1A2
- 30 x M2A2
- 50 x 20’ Containers

**LSV 1-6**
- Delivered 1988-1994
- **1 x LSV Per Detachment**
- **8 Total LSVs (5 AC / 3 USAR)**

**LSV 7-8**
- Delivered 2003
- **1 x LSV Per Detachment**
- **8 Total LSVs (5 AC / 3 USAR)**

**Support Starts Here!**
Landing Craft Utility 2000 (Heavy Boat CO)

**Purpose:** Provide intra-theater movement of containerized, break-bulk, and RO/RO cargo to improved / degraded ports, bare beach, and inland water terminals.

**Characteristics:**
- Crew - 12 (2 WO/10 ENL-24hr)
- Operating speed - 10 Knots
- Range - 6500 Nautical Miles
- Length - 174 Feet
- Draft - 9 Feet

**Cargo Capacity:**
- 7 x Strykers
- 5 x M1A2
- 6 x M2A2
- 24 x 20’ Containers

**Support Starts Here!**

- 10 x LCUs Per Company (1 AC/ 1 USAR)
- 34 x Total LCUs (7 AC / 7 USAR / 20 APS)
- 1 x AC & 1 USAR CO (O/H 7 LCU’s per CO)

**Support Starts Here!**

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Tugs & Cranes (Floating Craft Company)

**Purpose:** To provide ocean and coastal towing, docking/undocking vessels, salvage and rescue, general harbor support including heavy lift services.

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**Large Tug (6)**
- 1 AC / 2 USAR / 3 APS
- Length: 128 Feet
- Draft: 17 Feet
- Range: 4000 Nautical Miles
- Operating speed: 13.5 KTS

**Small Tug (16)**
- 2 AC / 6 USAR / 8 APS
- Length: 60 feet / Beam: 22 feet
- Draft: 6 feet loaded
- Range: 720 Nautical Miles at 6 knots

**Barge Derrick Crane (4)**
- 0 AC / 2 USAR / 2 APS
- Length: 200 feet / Beam: 80 feet
- Draft: 7+ when fully loaded
- Lifting capacity: 115 long tons

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- Crew - 22 (6 WO AND 16 ENL)
- Length - 128 Feet
- Draft - 17 Feet
- Range - 4000 Nautical Miles
- Operating speed - 13.5 KTS

- Crew Size -12 (2 WO / 10 Enl)
- Length - 60 feet / Beam: 22 feet
- Draft - 6 feet loaded
- Range - 720 Nautical Miles at 6 knots

- Crew Size -15 (2 WO / 13 Enl)
- Length - 200 feet / Beam: 80 feet
- Draft - 7+ when fully loaded
- Lifting capacity - 115 long tons

- 4 x Companies (1 AC / 3 USAR)
- Equipment in CONUS / APS

Support Starts Here!
Purpose: To provide floating platforms for the loading, discharge and transport of cargo to/from improved or austere ports, inland water terminals and during bare beach operations

Characteristics:
Soldiers: 200 (4/0/196)

Equipment:
- 10 x Modular Warping Tugs
- 4 x Powered Sections
- 111 x Causeway Sections

Configurations:
- 2 x Causeway Piers
- 4 x Causeway Ferries
- 3 x RO/RO Discharge Facilities

- 1 x Company (AC)
- 2 x Additional Company Sets (APS)
Harbor Master Command and Control Center (HCCC)

**Purpose:** Facilitate operational control for Army vessels conducting intra-theater lift, water terminal, inland waterway, joint amphibious, and logistics over the shore operations.

**Unit Characteristics**

**Soldiers:** 0/2/19  
**Equipment:**  
➢ Mix of standard and COTS  

**Capabilities:**  
➢ Lighterage Control Center  
➢ Beach Lighterage Control point  
➢ Ship Lighterage Control point

- 8 HMOD (4 ea AC/USAR)  
- No standard Communications between units
Purpose: To transport personnel and cargo, medical evacuation, C2 afloat, and light harbor salvage, from ship to shore and or within coastal areas including inland waterways.

**Characteristics:**
- Crew - 3 ENL /12 hrs OPS
- Operating speed - 9 Knots
- Range - 270 Nautical Miles
- Length - 73 Feet
- Draft - 5 Feet

**Cargo Capacity:**
- 1 x Stryker
- 1 x M2A2
- 1 x 20’ Container
- 60 x Short Tons

**MOD 1**
- (42) LCMs

**MOD 2**
- (6) LCMs

- 11 x LCMs Per Detachment (10x MOD 1,1x MOD2 )
- 4 x DETs (1AC /1 USAR / 2 APS)
- 48 Total LCMs (11 AC / 19 USAR/ 18 APS)

* 4 x LCMs Assigned to Floating Craft MNT CO
Landing Craft Modernization

This is where we are...........and this is where we’re going.

Vietnam Era... …to 2025 and Beyond

Landing Craft Mechanized (LCM-8)
- Configuration: Single ramp
- Length: 74 feet
- Beam: 21 feet
- Draft: 5 feet
- Speed: 9 knots
- Range: 271 miles
- Payload: 53 tons

Maneuver Support Vessel (Light)
- Configuration: Roll through
- Length: ~100 feet
- Beam: ~30 feet
- Draft: less than 4 feet
- Speed: 18 knots
- Range: 360 miles
- Payload: M1A2 Abrams Tank

Modernization and transformation of Landing Craft Fleet

- Yes
- No
- Yes
- No
- Yes

MSV Heavy
- FY25 (Projected)

LSV

MSV Medium
- FY31 (Projected)

Support Starts Here!