Joint Assault Bridge
Replaces M48/M60 chassis based Armored Vehicle Launched Bridge (AVLB)

Major components:
• M1A1 Abrams Chassis
  • with A2 heavy suspension
• Military Load Classification (MLC)-85 AVLB bridge,
• New Bridge Launch Mechanism

JAB will provide:
• Supportability: System availability/unit readiness improved commonality of parts with Abrams tank chassis.
• Maneuverability: Keep pace with ABCT
• Survivability: Crew protection equal to M1A1 Abrams chassis
• Integrates current suite of communications and situational awareness capabilities (FBCB2, BFT2, DAGR, SINCGARS)

AAO: 337
Milestones:
• MS C: 5 May 2016
• FRP Decision: 3QFY19

Bridge Launcher Mechanism (BLM)
JAB IPT Hull Ammo Compartment Kit (HACK)
M1A1 w/ED Chassis

Capability to add Tank Urban Survival Kit (TUSK) Force Protection – For Situational Use

New JAB Chassis
Existing MLC 85 Bridge

BLM – Bridge Launcher Mechanism
NDI – Non Developmental Item
TUSK – Tank Urban Survivability Kit
ARAT – Abrams Reactive Armor Tile
JAB – Joint Assault Bridge
MLC – Military Load Classification
FBCB2 – Force XXI Battle Command, Brigade-and-Below
SINCGARS – Single Channel Ground to Air Radio System

RVSS – Rear Viewer Sensor System
TIP – Tank-Infantry Phone
TIGER – Total InteGrated Engine Revitalization
AIM – Abrams Integrated Management
ED – Embedded Diagnostics
O&S – Operations and Sustainment
HACK – Hull Ammo Compartment Kit
DAGR – Defense Advanced GPS Receiver
BFT2 – Blue Force Tracker v2
Armored Vehicle Launched Bridge (AVLB)

MLC 85 Bridge Notes / Status:

- Initially the AVLB Scissors Bridge was fielded as an MLC-60.
- 1990’s: Conversion program adds stronger materials and design changes resulting in an MLC-70 classification. 2012: MLC 70 reclassified to MLC 85 after a series of successful structural and durability testing was completed to see if the bridge could be rated at MLC 85.
- Current: TARDEC conducting testing to determine if the bridge can be reclassified to MLC 95 "Normal" and MLC 100+ "Caution" or higher. This will allow for crossings by future Abrams variants.
- Next Milestone: In Post Production and Deployment Phase: Bridge Uprate on-going
Bridge Erection Boat (BEB)

- Improved Reliability/Maintainability with Embedded Diagnostics
- Interfaces with the Bridge Adaptor Pallet (BAP)
- Improved Survivability with Crew Protection Kit (CPK)
- Wide Beam Hull with Generous Freeboard Providing Excellent Load Carrying Capacity and Stability
- Uses Namjet for Propulsion, 25 Knots in Full Load Condition in Water Deeper than 23 Feet
- 20 Year Life Expectancy

AAO = 407

Next Milestone: Full Rate Production/Type Classification Standard, Full Material Release 1QFY18
Dry Support Bridge (DSB)
Replaces Medium Girder Bridge (MGB) 1 DSB system consist of 1 DSB Launcher Vehicle and 7 flat-rack loads of bridge components.
AAO = 112
Phase: Production & Deployment
Milestone: NA
Next ECP: 40-46m
Major components:
• M1075 PLS bear Chassis
• Bridge components
• DSB Launcher mounted on PLS
• Military Load Classification (MLC)-96(W) Normal, 120(W) Caution 80(T)
DSB improves:
• The DSB provides the maneuver force with a capability to span obstacles of up to a 46 meter gap.
• A DSB company set consists of 4 DSB Systems that include 4 Launch Vehicles and 28 flat-rack loads of bridge components.
• The 40 Meter DSB provides a capability to span four 40 meter or eight 20 meter gaps and the 46 Meter DSB provides a capability to span four 46 meter or eight 28 meter gaps.
Future Bridging System Initiatives

**Joint Assault Bridge (JAB):**
- 4QFY17 - Program Management Review
- 4QFY17 - Force Protection Mod: Installation effort on LFTE systems
- 4QFY17 - Start of 3 LFTE Asset Deliveries
- Late 1QFY18 LFTE Shots: Tentative

**Armored Vehicle Launched Bridge (AVLB) Chassis and Bridge Uprate**
- On-going - Replace M48A5 chassis with M60A1 launchers to APS, NGB, USAR - pending funding decisions
- 4QFY17- Testing to assess an increase to the AVLB Bridge to a higher MLC rating to support Abrams weight growth. Structural testing successful at MLC 95 and a “Caution Crossing” of MLC 100.
- 4QFY17 – 3QFY18 - Durability Test being planned and executed

**Dry Support Bridge (DSB):**
- 4QFY17 - RRAD PLS Rebuild Start-up for European Deterrence Initiative
- 4QFY17 – Final Fieldings for 40m DSB Variant
- 1QFY18 - Proof of Concept for ECP 182 – Hydraulic Kit
- 2QFY18 46m Retrofit at 2225th, Marrero, LA
- On-going - PLS A0 Obsolescence: Working with RRAD on rebuilding components

**Bridge Erection Boat (BEB):**
- 4QFY17 - Full Rate Production Decision, Type Classification- Standard, Full Materiel Release
- 1QFY18 - First Unit Equipped (FUE)