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US Army Tank-Automotive & Armaments Command TACOM



Integrated Logistics Support Center

Ms. Christina Rieger
Deputy ILSC Executive Director

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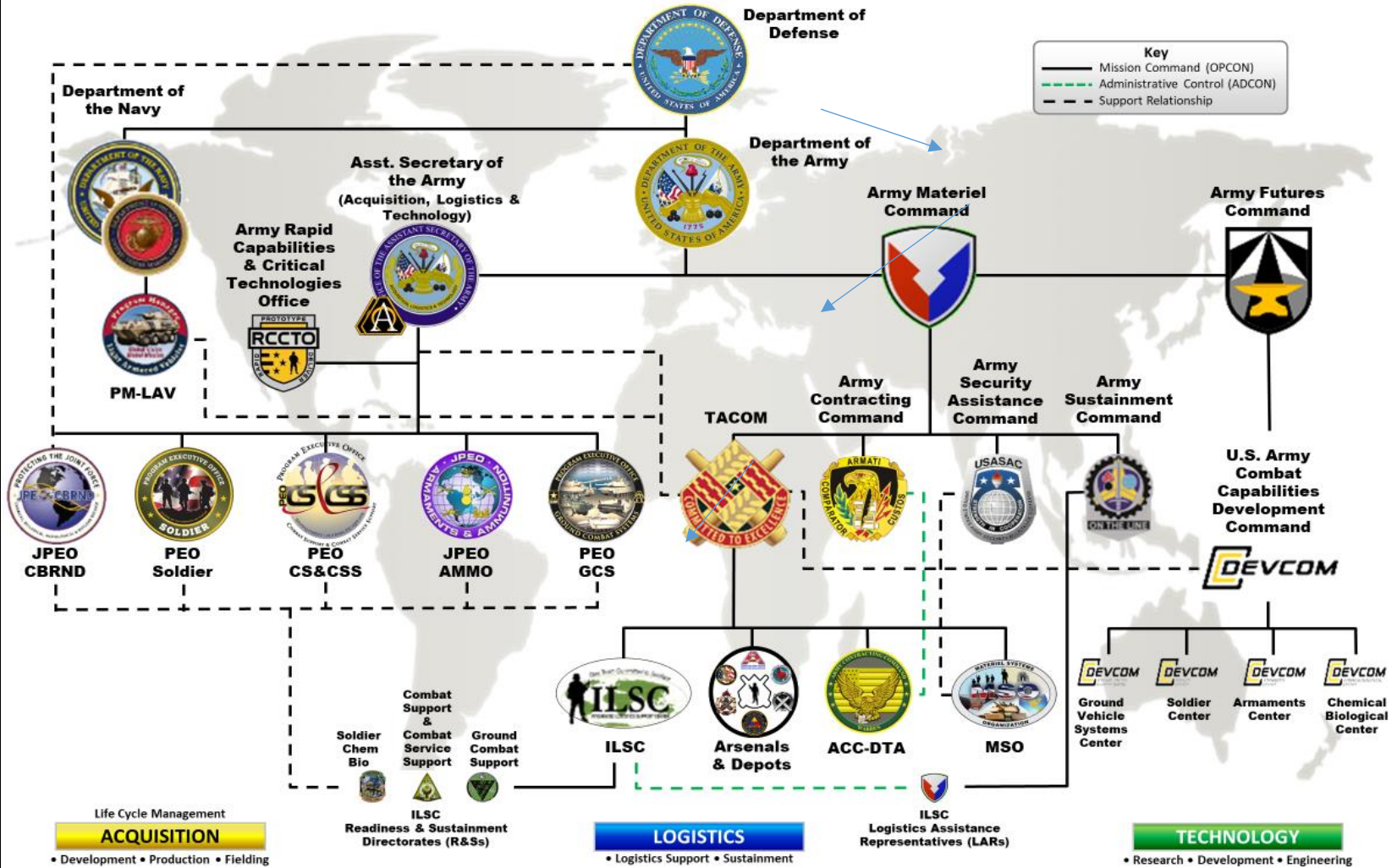
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How we Fit in the Army



TACOM Within the Army Logistics Team





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BG Michael Lalor
Commanding General

Mr. Brian Butler
Deputy to the
Commander

CSM Kendra St. Helen
Command Sergeant
Major

CW5 Maxine Williams
Senior Maintenance
Warrant Officer



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What's Being Done



Advanced
Manufacturing

Technical Data
& Provisioning

Diminishing
Manufacturing
Sources and
Material Shortages
(DMSMS)

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TACOM Class IX Advanced Manufacturing



Delivering Readiness:

Leveraging Advanced Manufacturing (AdvM) from the strategic support area and Organic Industrial Base (OIB) to fill gaps for Class IX repair parts and serve as a catalyst for change in our Army from the national to the tactical level.

Immediate:

Develop and employ a Battle Damage and Fabrication (BDRF) model to drive the process – essentially, 21st Century

Long Term:

Execute sustained production at the national level to meet Army readiness demands, improve readiness across Army fleets and drive vendor accountability and performance.

- Units will order parts from Tech Bulletin
- Continue to qualify parts and update Tech Bulletin every 6 months
- Develop tech data for field AdvM capabilities
- Purchase AdvM technical data during system acquisition and new part development.

Definitions:

BDAR - Battle Damage Assessment and Repair – Program designed to return disabled equipment rapidly to combat

Qualified Part - OEM Equivalent Part – Produced at TACOM (RIA-JMTC) as part of the standard army supply system process

BDRF Part - Battle Damaged Repair / Fabricate – Temporary part produced at TACOM (RIA-JMTC) or in the field by Allied Trades if the capability exists in the fielded MWMSS

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TACOM Class IX Advanced Manufacturing(AdvM) BACKUP FACER Details (LOEs)



LOE 1:

BDRF Part Identification - Equipment Status Report (ESR) Scrub AND Focused Platform Review (Bradley, M777, next priority system)

TACOM is driving the production of CL IX parts, with a focus on a holistic weapon system view for analysis and leverages a total ESR scrub. Bradley was the first platform with a focused review, TACOM will expand this program to multiple combat and non-combat platforms (M777, M1A2 series, JLTVs/HMMVs, FMTVs, and more).

Primary LOE Actions:

- Receiving Tech Data from Weapon System Managers and Program Managers
- Engineering reviews data to determine viable candidates for Battle Damage Repair and Fabrication (BDRF)
- Intellectual Property Review to ensure no legal objections to printing the BDRF part
- Safety risk classification is provided on BDRF part
- Complete BDRF package provided to TACOM CG, for authorization to release the part
- Authorized BDRF candidates added to ILSC Readiness Tool for automatic tracking against the ESR.



LOE 2:

RIA JMTC Production Status

Rock Island Arsenal Joint Manufacturing Technology Center (RIA-JMTC) produces suitable candidates using AM and AdvM methods identified in LOE1 and ships candidates to the units.

Primary LOE Actions:

- BDRF Pre-production work (modeling, manufacturing engineering technical data creation for 3D printing, 3D printing technology selection, material selection, redline drawing)
- BDRF part production
- BDRF post-processing (stress relief, finish machining, surface treatment)
- Shipment to Unit



LOE 3:

Field Interface (Acceptance, MFR and Unit Follow-up)

TACOM AdvM Team/Logistics Assistance Division (LAD) will coordinate with units and Commanders to provide parts, monitor performance and action feedback

Primary LOE Actions:

- Interface with Commander to assess willingness to accept BDRF part and coordinate MFR.
- MFR lays out the responsibilities for both the Unit and TACOM
 - Unit Responsibilities include:
 - Part must be on ESR
 - Update ESR from X status to / status and downgrade priority of FSS request to 04/05/06
 - Accept and assume the risk of installed BDRF part
 - Provide feedback on part performance
- Manage Field interface
 - Manage automated process to track candidates through delivery between enterprise and Unit
 - Ensure delivery
 - Follow up on install and performance
 - Collect and analyze feedback



LOE 4:

Maintenance Information Message (MIM) and Tech Bulletin (TB)

MIM will be issued to introduce the overall BDRF effort to the field. This will be followed closely by a TB.

The TB will detail the process for ordering BDRF and Final Use AM and AdvM approved Items.

Primary LOE Actions:

- MIM developed and staffed for release providing overall concept and field expectations
- TB being developed to provide the current list of Qualified AdvM Parts and BDRF Parts.
- TB will also include the requisition process for both Qualified and BDRF parts.
- TB will go through staffing for publication.
- Both Documents will be updated as required.



Technical Data & Provisioning



What is Provisioning?

- Provisioning ties operation/maintenance to supply by ensuring that all necessary spare parts and materials are available when operation/maintenance tasks are performed.
- It involves predicting needs, stocking the right parts, and managing inventory so that end users and maintainers have what they need to operate and fix equipment without delays.
- This process helps minimize downtime and keeps operations running efficiently.

Why Provisioning Data is Important?

- Provides the necessary information to predict and plan for resource needs.
- Accurate data helps ensure that the right quantities of spare parts and materials are available when needed, reducing the risk of shortages or excess inventory.
- This leads to more efficient operating and maintenance operations, cost savings, and improved reliability of equipment and systems.

What can we do to make things better?

Develop contract requirements that are agile and meet the needs of all types of product acquisition.

- Standardized contract requirements for provisioning data, summaries, and technical data
- Review processes and sign-offs that include all stakeholders before the contracts go out for proposals.

What can industry do to make things better

Provide data that is fit for purpose on all items selected for provisioning. Example:

- Historic usage data
- Lead times
- Failure/Replacement Rates
- Specification data (Form, Fit, Function)



Diminishing Manufacturing Sources and Material Shortages (DMSMS)



DMSM and Obsolescence is an issue we collectively continue to struggle with as our systems integrate more and more technology.

- Designing systems that allow for minimal integration impacts as system upgrades are needed
- Evaluate Technical Data access

How do we ensure support for our older systems that require traditional and legacy manufacturing that the commercial market is moving away from?

- Maximize DoD Organic Industrial existing capabilities within our Arsenals.
- Public/Private Partnerships
- Develop new alternative manufacturing capability through advanced manufacturing





Questions?