Total Cost Visibility

Capturing and Managing Weapon System Costs

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Agenda

- Requirements
- Total Cost Visibility
- Customer Support
- Other Cost Systems
- Questions
Requirements
Operating and Support Management Information System (OSMIS)

Assists in costing weapon system operations

Analytical tool supporting a myriad of functions:

- Planning, Programming, Budgeting & Execution (PPBE)
- Acquisition
- Economic Analysis (EA)
- Feasibility Studies
- Business Case Analysis (BCA)
- Analyses of Alternatives (AoA)
- Cost Benefit Analysis (CBA)
- Force Structure Analysis (FSA)
- Tradeoff Studies, Source Selections
- Total Ownership Cost (TOC)
- Quick Turn Studies and Analysis
- Independent Government Cost Estimate (IGCE)
- Independent Cost Assessment (ICA)
- Cost Estimating Relationships (CER)
- Cost and Operational Effectiveness Analyses (COEA)
- Joint Capabilities Integration and Development System (JCIDS)
- Operating and Support Cost Reduction Efforts
Primary Data Sources

- Forward Pipeline
- Property Book Unit Supply Enhanced (PBUSE)
- Structure And Manpower Allocation System (SAMAS)
- Army Master Data File (AMDF)
- Bill Of Material (BOM)
- Readiness Integrated Database (RIDB)
- Standard Army Maintenance System Enhanced (SAMS-E)
- Department of Defense Activity Address File (DODAAAF)
- Work Order File (WOF)
- Training Ammunition Management Information System (TAMIS)
Weapons Definition

M1 Abrams

Comprehensive list of all parts that fit on a Weapon System

- Optical periscope
- Gun mantlet
- Co-axial gun
- Fume extractor
- Main gun
- Driver’s optics
- Driver’s hatch
- Glacis plate
- Track
- Machine gun ammunition
- Commander’s MG
- Hatch or cupola
- Turret
- Turret ring
- Hull
- Engine air intake
- Engine compartment
- Armoured skirt
- Drive sprocket
- Link
- Road wheel

Ammunition
Force Structure
Inventory
Maintenance
Requisitions
Total Cost Available
Parts Explosion

Parts Explosion are the relationships between parts

* Not a comprehensive depiction
Force Structure

Who do we track?

Stryker Brigade Combat Team
Organizational Table

United States Army

A GUIDE TO
U.S. ARMY UNITS

Field Army
50K+ Soldiers

Corps
2+ Divisions

Division
3 Brigades

Brigade
3-5 Battalions

Battalion
3-5 Companies

Company
3-4 Platoons

Platoon
3-4 Soldiers

Squad
6-10 Soldiers
Force Structure
Inventory

What do we track?
Inventory

What do we track?

- Unit
- Weapon System
- Equipment Owned (non Weapon System)

Inventory, Weapons Definition, Force Structure, Requisitions, Maintenance, Total Cost Visibility
Requisitions

How does the Army order parts?

Legend:
- DIC = Document identifier code
- RIC = Routing identifier code
- NSN = National stock number
- UI = Unit of issue
- QTY = Quantity ordered
- DOC NO = Document number
- SUP ADD = Supplementary number
- SC = Signal code
- FC = Fund Code
- RDD = Required delivery date

Material and Status Code (left blank)
Distribution Code (left blank)
Record Positions 55–56
left blank
Project Code
Priority Code
Record Positions 70–80 left blank
Date of Receipt of Requisition
Advice Code

AQA/AY8/5314919183
/EA/00002/W91PEF12420122/R/W90A84/A/
Requisitions

How orders are linked to Weapon Systems

[Diagram showing the linkage between various orders and weapon systems]

- Unit
- Part
- Activity
- Order
- Weapon System

[Legend for the diagram]

UNCLASSIFIED//FOUO
Maintenance

Units request maintenance

Units services the request
Maintenance

- Weapon System
- Part
- Maintenance
- Unit

Ammunition
Weapons Definition
Force Structure
Requisitions
Inventory
Total Cost Visibility
Ammunition

Abrams Tank (Uses 1,2,3,4)
Gun (Fires 1)
Grenade Launcher (Fires 2)
Gun Turret (Fires 3, 4)
Ammunition

- Unit
- Weapon System
- Ammunition
Customer Support

HQDA
Program & Budget Estimates

PM
Acquisition Estimates

G8 / ASA(FM&C)
Force Costing

G3/5/7 / Operations
Monthly / Quarterly Performance Reports

AAA / GAO / CBO
Audits and Special Analyses

DoD Community
RECAP, O&S Reduction Studies, Force Costing, OSD Reimbursable Ground and Aviation Rates
Customer Support
AMCOS Products:

- **AMCOS LITE** - Quick current year personnel cost estimate
  - Military (Active, NG & Reserve) by MOS / AOC and Grade
  - Civilian (Wage, GS & SES) by Occupational Series and Grade
  - Private Labor Market (PLM) for a quick Contract Cost Estimate

- **Project Manager** - Create multiple projects (e.g., build an organization structure) for multi-year cost analysis (1-30 Years)

- **Pay Plan Xwalk** - Compare costs between Pay Plans (Active, GS, Wage & PLM)

What Impacts AMCOS

- Pay tables
- FY Inventories End Strength by MOS / AOC / Occupation Series & Grade
- Budget data taken from the FY Budget Materials
- TRADOC ATRM-159 Training Report
How much does it cost to buy a unit & locate it somewhere?

How much does it cost to operate a unit for a year?

How much does it cost to move a unit from anywhere to anywhere in the world?

How much does it cost & save to take a unit out of the force?

What are the incremental costs to deploy & sustain troops for CONOPS?

Force & Organization Cost Estimating System (FORCES)