

EVAMOSC

Road Map Development



September 2019



Task Force Purpose

OSD CAPE

- Continue the discussion of the “Future O&S Data Vision” – Integration of O&S Data Collection across the Department
- Discuss and clearly define the technical differences between the Service’s VAMOSC systems



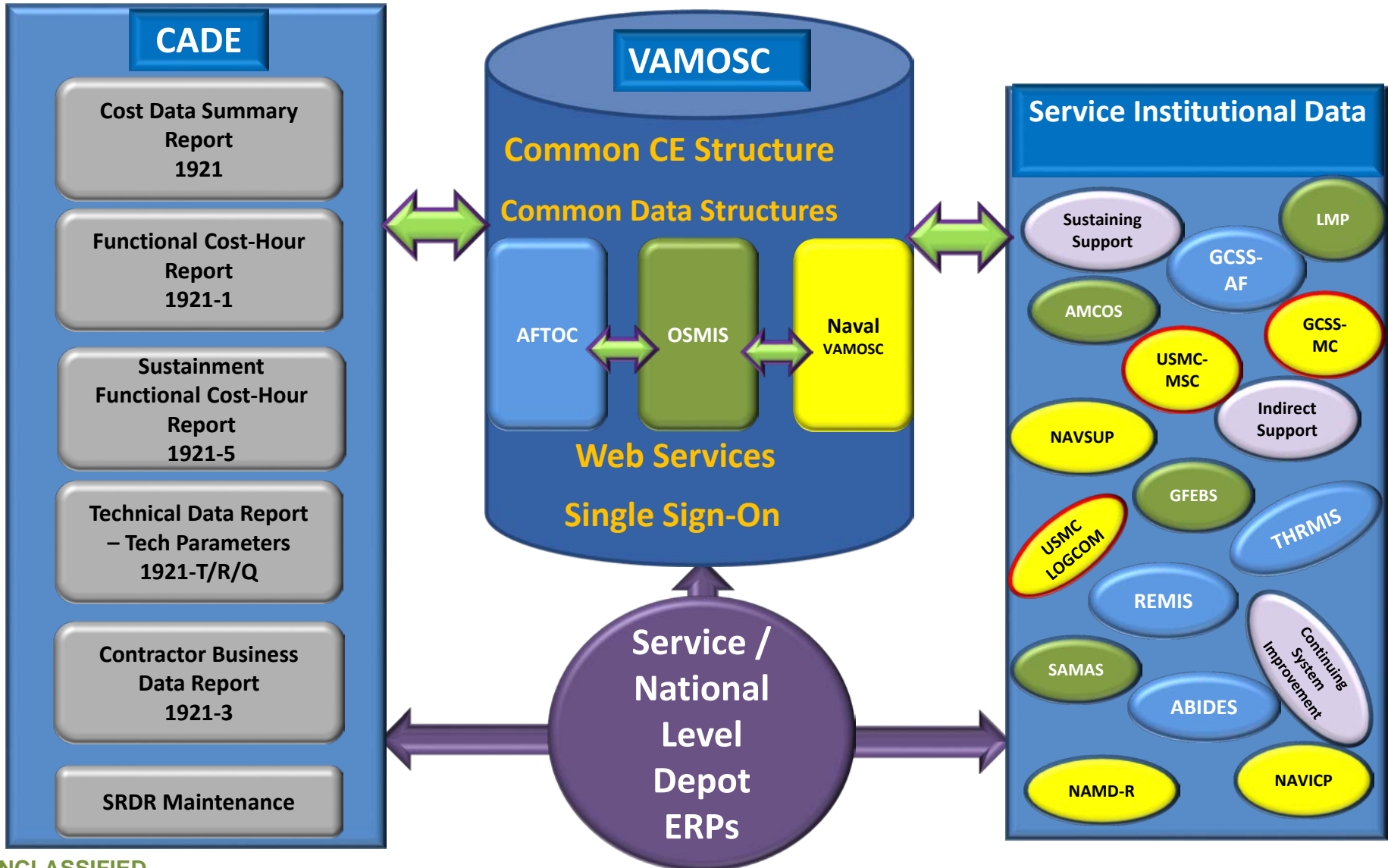
Task Force Endstate

OSD CAPE

- Development of a long-term VAMOSOC Integration Roadmap with clear and measurable decision points that achieves the overall O&S vision.
- Identify executable very near term actions that will lead to cross-Service / OSD O&S data transparency.

Future O&S Data Vision

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Current Solution

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Consolidated VAMOSOC Tool (CVT)

<https://service.cade.osd.mil/cade/Site/Tools.aspx>



Common Cost Data View - Today

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Not all check marks are equivalent....

CAPE 2014 O&S CES	Air Force	Army	Naval VAMOSOC					USMC GE
	AFTOC	OSMIS	Aircraft	Ships	MSC	Shipboard Systems	Weapons	
1. Unit Level Manpower	✓		✓	✓	✓			
2. Unit Operations	✓		✓	✓	✓	✓	✓	
2.1 Operating Materiel	✓		✓	✓	✓	✓	✓	
2.1.1 Energy (Fuel, Electricity, etc.)	✓	✓	✓	✓	✓	✓		
2.1.2 Training Munitions and Expendable Stores	✓	✓	✓	✓	✓		✓	✓
2.1.3. Other Operational Material	✓			✓	✓			
2.2 Support Services	✓			✓	✓			
2.3 Temporary Duty	✓		✓	✓	✓			
2.4 Transportation	✓		✓		✓		✓	
3. Maintenance	✓	✓	✓	✓	✓	✓	✓	
3.1. Consumable Materials and Repair Parts (CONs) (Unit Level)	✓	✓	✓	✓	✓	✓	✓	
3.2. Depot Level Repairables (DLRs) (Unit Level)	✓	✓	✓	✓	✓	✓	✓	in 3.4
3.3 Intermediate Maintenance (External to Unit Level)		in 3.1/ 3.2	✓	✓	✓	✓		
3.4 Depot Level Maintenance	✓	✓	✓	✓	✓	✓	✓	✓
3.5 Other Maintenance	✓	✓	✓		✓		✓	
4. Sustaining Support	✓		✓	✓	✓	✓	✓	
4.1 System Specific Training	✓		✓	✓	✓	✓	✓	
4.2. Support Equipment Replacement and Repair	✓		✓		✓		✓	
4.3. Sustaining/Systems Engineering	✓		✓	✓	✓	✓	✓	
4.4. Program Management	✓		✓		in 4.3		✓	
4.5. Information Systems								
4.6. Data and Technical Publications	✓		✓	✓				
4.7. Simulator Operations and Repair	✓		✓					
4.8. Other Sustaining Support	✓		✓	✓	✓		✓	
5. Continuing System Improvement	✓		✓	✓	✓	✓	✓	
5.1. Hardware Modifications	✓	✓	✓	✓	✓	✓	✓	
5.2. Software Maintenance	✓		✓	✓	✓	✓	✓	
6. Indirect Support	✓				✓			



Common Cost Data View – Potential Data Sources

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CAPE 2014 O&S CES	Army	Navy	USMC
		Ships	
1.0 Unit Level Manpower	See Below	See Below	See Below
1.1 Operations	DMDC	DMDC	DMDC
1.2 Unit Level Maintenance	DMDC	N/A	DMDC; GCSS-MC*
1.3 Other Unit Level	DMDC; GFBS	DMDC	DMDC
2.0 Unit Operations	See Below	See Below	See Below
2.1 Operating Material	See Below	See Below	See Below
2.1.1 Energy (Fuel, Electricity, etc.)	GCSS-A*	SABRS; NWCF	
2.1.2 Training Munitions and Expendable Stores	TAMIS	NERP; SABRS	
2.1.3. Other Operational Material		NERP; SABRS; NWCF	
2.2 Support Services			
2.3 Temporary Duty	DTS	SABRS; DTS	DTS
2.4 Transportation	Syncada	Syncada	
3.0 Maintenance	See Below	See Below	See Below
3.1. Consumable Materials and Repair Parts (CONS) (Unit Level)	GCSS-A*; LMP*	SABRS	GCSS-MC*; SABRS
3.2. Depot Level Repairables (DLRs) (Unit Level)	GCSS-A*; LMP*	NWCF	GCSS-MC*; SABRS
3.3 Intermediate Maintenance (External to Unit Level)	See Below	See Below	See Below
3.3.1 Intermediate Level Consumable Materials and Repair Parts	N/A	NERP	
3.3.2 Intermediate Level Government Labor	N/A		
3.3.3 Intermediate Level Contractor Maintenance	N/A		
3.3.4 Other Intermediate Level Maintenance	N/A		
3.4 Depot Level Maintenance	LMP*; EMSR (aviation)	NWCF	
3.5 Other Maintenance	GCSS-A*; LMP*		
4.0 Sustaining Support	See Below	See Below	See Below
4.1 System Specific Training	See Below	See Below	See Below
4.1.1 System Specific Operator Training	TRADOC	SABRS	
4.1.2 System Specific Maintenance Training	TRADOC	N/A	
4.1.3 System Specific Other Support Training	TRADOC	SABRS	
4.2. Support Equipment Replacement and Repair	GCSS-A*	NERP; NWCF	
4.3. Sustaining/Systems Engineering	GFBS	NERP; NWCF	
4.4. Program Management	GFBS		
4.5. Information Systems	See Below	See Below	See Below
4.5.1 Tech Refresh			
4.5.2 License Fees			
4.5.3 Maintenance			
4.6. Data and Technical Publications		NERP; NWCF	
4.7. Simulator Operations and Repair			
4.8. Other Sustaining Support		NERP; NWCF	
5.0 Continuing System Improvement	See Below	See Below	See Below
5.1. Hardware Modifications	GCSS-A*; LMP*	SYMIS	
5.2. Software Maintenance			

Legend

- Confirmed data source maps to CES
- Data received/reviewed, additional analysis or more data required
- Data not yet received/reviewed

Data obtained via DRCD/ADVANA unless marked with *



CVT Description

Common Cost and Non-Cost Elements

OSD CAPE

- CVT Common Cost Elements, Non-Cost Elements and Cost Metrics

Common Cost Elements based on OSD CAPE O&S Guide

<u>Element</u>	<u>Cost Element Description</u>	<u>Element</u>	<u>Cost Element Description</u>
1.0	Unit-Level Manpower	4.0	Sustaining Support
1.1	Operations	4.1	System Specific Training
1.2	Unit-Level Maintenance	4.1.1	System Specific Operator Training
1.3	Other Unit-Level	4.1.2	System Specific Maintenance Training
2.0	Unit Operations	4.1.3	System Specific Other Support Training
2.1	Operating Materiel	4.2	Support Equipment Replacement and Repair
2.1.1	Energy (Fuel, Electricity, etc.)	4.3	Sustaining/Systems Engineering
2.1.2	Training Munitions and Expendable Stores	4.4	Program Management
2.1.3	Other Operational Material	4.5	Information Systems
2.2	Support Services	4.5.1	Tech Refresh
2.3	Temporary Duty	4.5.2	License Fees
2.4	Transportation	4.5.3	Maintenance
3.0	Maintenance	4.6	Data and Technical Publications
3.1	Consumable Materials and Repair Parts	4.7	Simulator Operations and Repair
3.2	Depot Level Reparables	4.8	Other Sustaining Support
3.3	Intermediate Maintenance (Ext to Unit-Level)	5.0	Continuing System Improvement
3.3.1	I-Level Consumable Materials & Repair Parts	5.1	Hardware Modifications
3.3.2	I-Level Government Labor	5.2	Software Maintenance
3.3.3	I-Level Contractor Maintenance		
3.3.4	Other I-Level Maintenance		
3.4	Depot Maintenance		
3.5	Other Maintenance		
3.6	Other Contractor Maintenance *		

Common Non-Cost Elements that accommodate differences among ships, aircraft and ground vehicles

<u>Element</u>	<u>Non-Cost Element Description</u>
A.1	Number of Systems
B.1	Flying Hours (FH)
B.2	Steaming Hours (SH)
B.3	Steaming Hours Underway (SHU)
B.4	Steaming Hours Not Underway (SHNU)
B.5	Miles Driven
C.1	Fuel Consumed (Gallons)
C.2	Fuel Consumed Underway (Gallons)
C.3	Fuel Consumed Not Underway (Gallons)
C.4	Fuel Consumed Auxiliary (Gallons)
D.1	System Age

<u>Metric</u>	<u>Metric Description</u>
M-1	Total Cost Reported per Aircraft/Ship/System
M-2	Total Cost Reported per FH/SHU/Mile Driven

Primary Common Cost Metrics used by the cost community

* 3.6 Other Contractor Maintenance element added to better identify contractor cost



CVT Description Overview

OSD CAPE

- The Consolidated VAMOSC Tool (CVT) allows each Service's VAMOSC data to be retrieved and analyzed in a common framework using a common tool
- Version 1 of the CVT consists of 4 individual, yet similar, excel files containing data from each Service's VAMOSC system
 - Naval VAMOSC (Ships)
 - Naval VAMOSC (Aircraft)
 - Air Force AFTOC/AFCAP (Aircraft)
 - Army OSMIS (All Weapon Systems)
- The CVT allows the user to:
 - Select a specific ship class, aircraft TMS or Army weapon system MDS
 - For Army data, the user can also select data output to include or exclude CONOPS and APS related activities/cost
 - Select a specific cost output (i.e., TY or CY which uses the CADE Inflation Tool)
 - When converting to CY, the latest inflation table or a historical inflation table (i.e., tables developed in 2012) can be used
 - View data output in a common cost and non-cost structure (see next slide)
 - Where the cost data structure is based on the latest CAPE O&S Guide
 - View commonly used cost metrics (see next slide)
 - See the data graphically
 - Program cost breakout overtime and number of systems, flying hours, steaming hours underway, miles driven or age
 - Cost breakout per aircraft/ship/system overtime
 - Cost breakout per flying hour/steaming hour underway/mile driven overtime