

Cost and Software Data Reporting (CSDR) & Earned Value Management (EVM) Training



Huntsville, Alabama

June 3 – 5, 2014



Agenda: June 3



OSD CAPE

8:00 – 8:30 Combined Introduction

DCARC: CSDRs

8:30 – 8:45 [CSDR Overview](#)

8:45 – 9:15 [Contracting and Legal Foundations](#)

9:15 – 10:15 [CSDR Planning](#)

10:15 – 10:45 [cPet Desktop - CSDR Planning Demonstration](#)

10:45 – 11:45 [Cost Assessment Data Enterprise \(CADE\) Project](#)

11:45 – 1:15 Lunch

1:15 – 2:15 [CSDR Reporting & Validation](#)

2:15 – 2:45 [cPet Desktop - CCDR Validation Demonstration](#)

2:45 – 3:15 [Systems and Tools](#)

3:15 – 4:00 [Summary and Wrap Up](#)



Agenda: June 4



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PARCA: EVM

- 8:00 – 9:00 EVM Policy and Data Requirements
- 9:00 – 11:00 Integrated Program Management Report (IPMR)
DID
- Format Content
 - Tailoring
 - Compliance and XML Validation
- 11:00 – 12:00 PARCA Performance Assessments
- 12:00 – 1:15 Lunch**
- 1:15 – 3:15 EVM Central Repository (EVM-CR)
- Submission Process
 - Data Analysis and Viewing
 - Data Quality
 - Data Delivery Status
- 3:15 – 4:00 Question and Answer



**PARCA
EVM**



JOINT INTRODUCTION



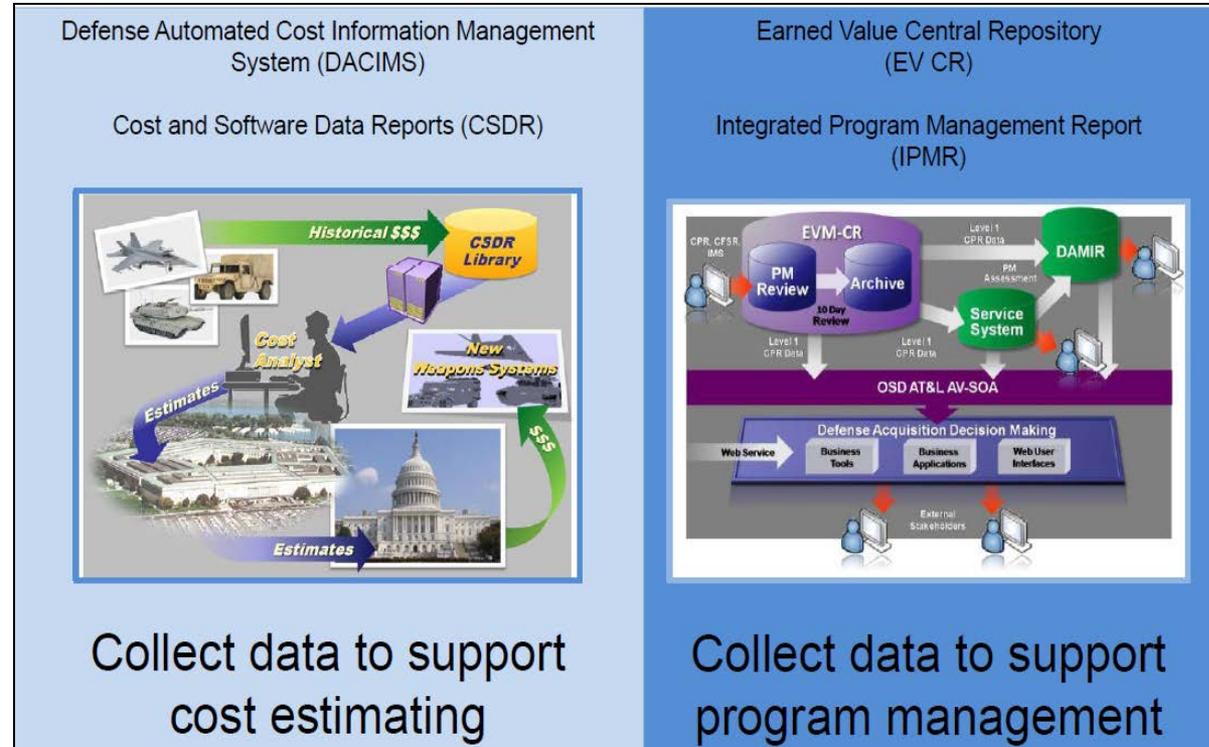
Training Objectives

- ▶ Understand the roles of DCARC and PARCA and their goals
- ▶ Become familiar with the applicability of CSDR and EVM Reporting Requirements
- ▶ Become familiar with the formats of the CSDR and IPMR Reports

Introduction



- ▶ DCARC and PARCA are different organizations with different purposes and objectives
- ▶ Working together to create joint CSDR-EVM Plan Process



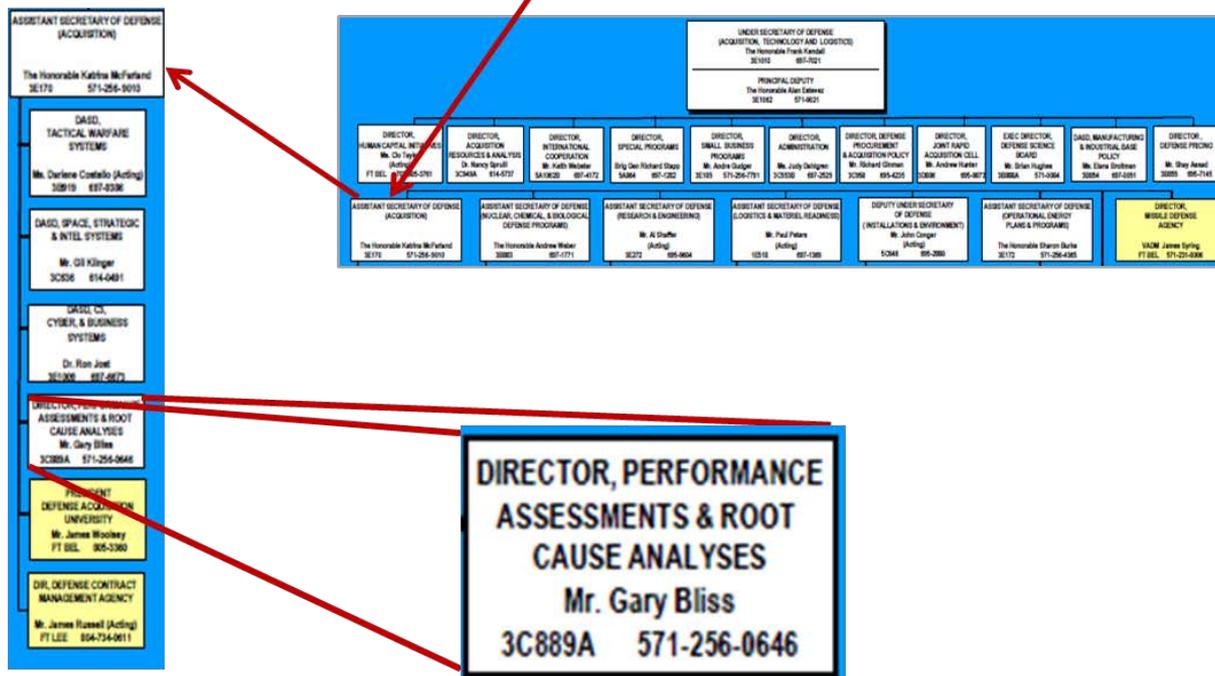


PARCA
EVM

Organization Chart



Office of the Secretary of Defense



DIRECTOR, PERFORMANCE ASSESSMENTS & ROOT CAUSE ANALYSES
Mr. Gary Bliss
3C889A 571-256-0646



PARCA EVM

PARCA / DCARC Comparison



Topic	PARCA	DCARC
Role	Department of Defense (DoD) focal point for all policy, guidance and competency relating to EVM (DoD EVM Policy Holder)	DoD focal point for all cost and software data reporting (CSDR) matters including administration of the CSDR system
Reporting Requirements	<ul style="list-style-type: none"> - DI-MGMT-81861 Integrated Program Management Report (IPMR) - DI-MGMT-81468 Contract Funds Status Report (CFSR) 	<ul style="list-style-type: none"> - DI-MGMT-81334D, Contract Work Breakdown Structure (CWBS) - DI-FNCL-81565C, Cost Data Summary Report (DD Form 1921) - DI-FNCL-81566C, Functional Cost Hour Report (DD Form 1921-1) - DI-FNCL-81567C, Progress Curve Report (DD Form 1921-2) - DI-FNCL-81765B, Contractor Business Data Report (DD Form 1921-3) - DI-MGMT-81739B, Initial Developer Report - DI-MGMT-81740A, Final Developer Report
Reporting Repository	EVM Central Repository	Defense Automated Cost Information Management System (DACIMS)
Purpose of Reporting	Measure cost and schedule performance on programs to provide situational awareness and to facilitate decision making	Provide actual cost data to develop independent, substantiated cost estimates which enable realistic budgets, executable contracts, and program stability
Users of Data	Government PMO and Analysts Contractor PMO and Leadership OSD Leadership	<ul style="list-style-type: none"> - Government PMO - Service Cost Centers (NCCA, AFCAA, ODASA-CE) - OSD Leadership
Reporting Structure	Product-oriented WBS where it makes sense, or other structure that aligns with performance and management of the work	Product-oriented WBS in accordance with MIL-STD-881C
Frequency of Reporting	Formats 1-6 monthly, Format 7 annually, CFSR quarterly	Approximately annually, per reporting events in CSDR plan
Applicability: Contract Type Contract Value ACAT Level	<ul style="list-style-type: none"> - Cost Plus & Incentive Fee Contracts - Contracts > \$50M EVM & EVMS with Validation - Contracts > \$20M EVM & EVMS meeting EIA 748 - Applies to all contracts, however only ACAT I's have to report to the EVM Central Repository 	<ul style="list-style-type: none"> - All contract types, including FFP - Contracts > \$50M mandatory - Contracts > \$20M if high-risk or high-technical-interest - ACAT I & IA; ACAT II & III for major components of an ACAT I/IA program



► *Guiding Principles*

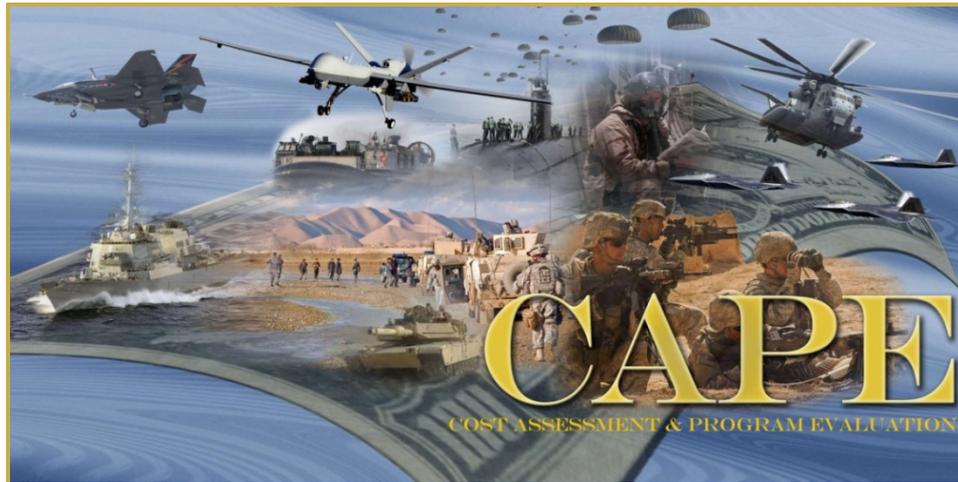
- Ensure the appropriate WBS is defined for program execution and EVM reporting; and reporting hierarchy defined for CSDR reporting
- Reduce contractor's administrative burden of reporting by ensuring WBS is at the appropriate level of detail
- Define requirements for program execution vs cost reporting
- Provide guidance to ensure data requirements are identified and on contract as early as possible

► *Objectives*

- DCARC/PARCA agreement to create and implement a Joint DD 2794 Data Plan to capture both EVM and CSDR requirements
- Creation of a standard plan by commodity group, defined by MIL-STD-881C
- Definition of a standard business process
- Coordinated effort to update policy language

Foster efficient and consistent quality reporting through a joint EVM/CSDR planning process

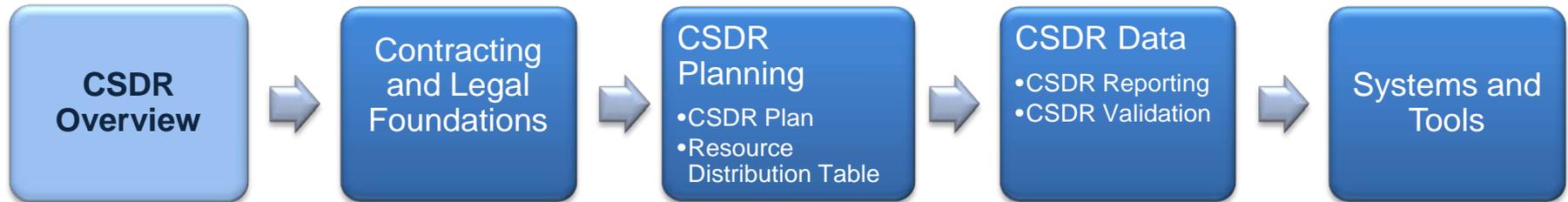
Cost and Software Data Reporting





CSDR Overview

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Introduction

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- Common questions about CSDRs

What does DCARC do?

What types of reports does DCARC have?

What purpose do CSDRs serve?

What steps need to be taken to get CSDRs on my contract?

What are my responsibilities to ensure that the necessary data is collected?

How do I access DCARC data?

How does this apply to me?



DCARC Responsibilities

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What does DCARC do?

- Provide cost and software data report (CSDR) data on Major Defense Acquisition Programs (MDAP) and Major Automated Information Systems (MAIS) to government cost analysts
 - Manage the operations of the DCARC office including CSDR policy development, planning, validations, training, customer outreach and compliance monitoring
 - Manage the development, fielding, maintenance and security administration of all CSDR Information Technology (IT) solutions



Cost and Software Data Reports

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What are CSDRs?

- CSDRs are a means by which the DoD collects data on the actual costs and software effort for contracts on MDAP and MAIS programs



CSDR data is used to develop credible estimates which enable realistic budgets, executable contracts, and program stability

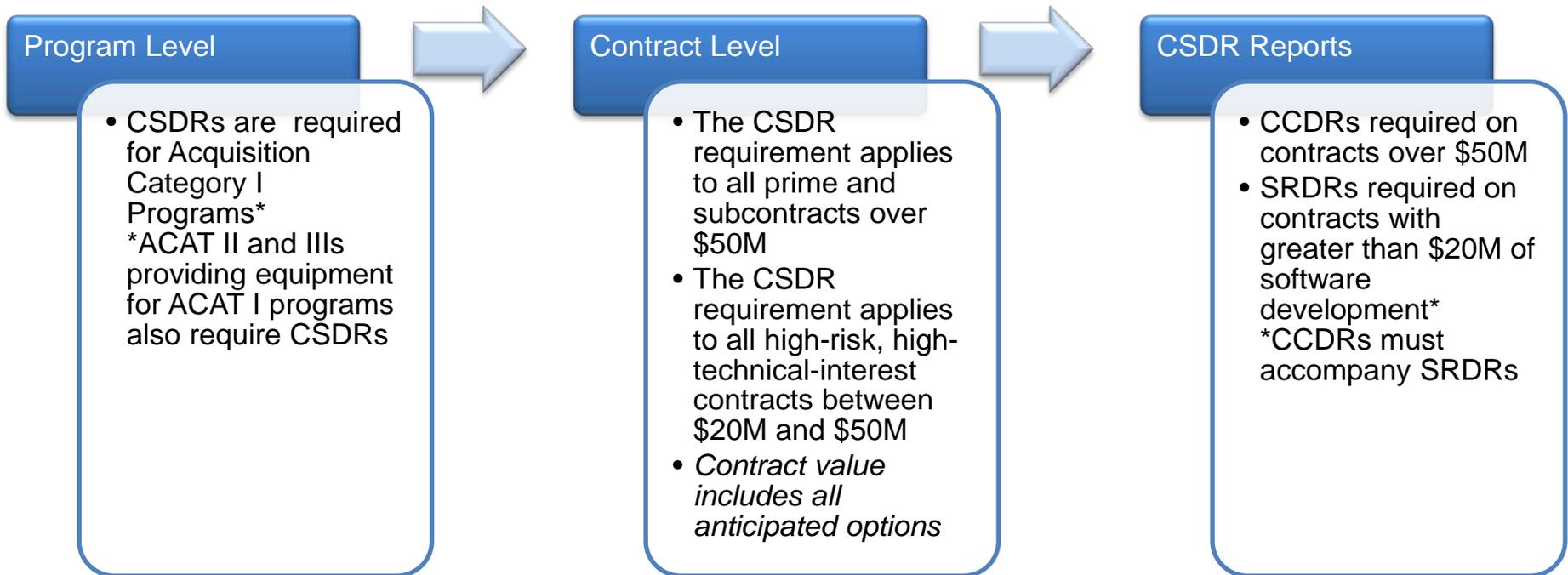


CSDR Applicability

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Who must submit CSDRs?

- Per Interim DoDI 5000.02, CSDRs are required on all prime and subcontracts of ACAT I programs, regardless of contract type, where the contract value is greater than \$50M or \$20M if the contract is high-risk, high-technical-interest or for software development

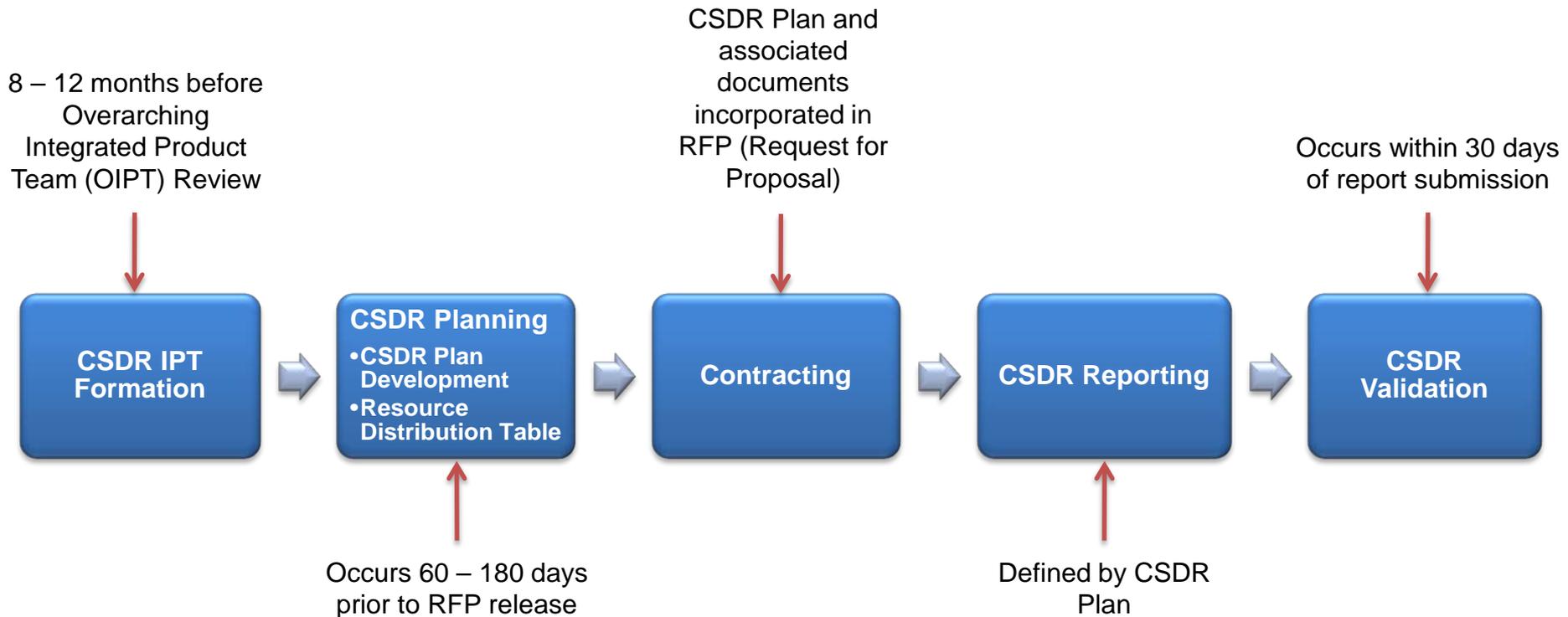


CSDRs may be required for contracts less than \$20M based on cost community needs



The CSDR Process

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CSDR Integrated Product Team (IPT)

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Who takes part in the CSDR process?

- Involvement of government agencies and industry in the CSDR IPT is crucial to developing accurate CSDR requirements on time
- The DCARC has limited insight into contracts and program requirements
- Government and industry counterpoints are needed throughout the program's lifecycle to identify cost data needs



* If the contract award is competitive, Reporting Entities are not part of the CSDR IPT



CSDR IPT Members

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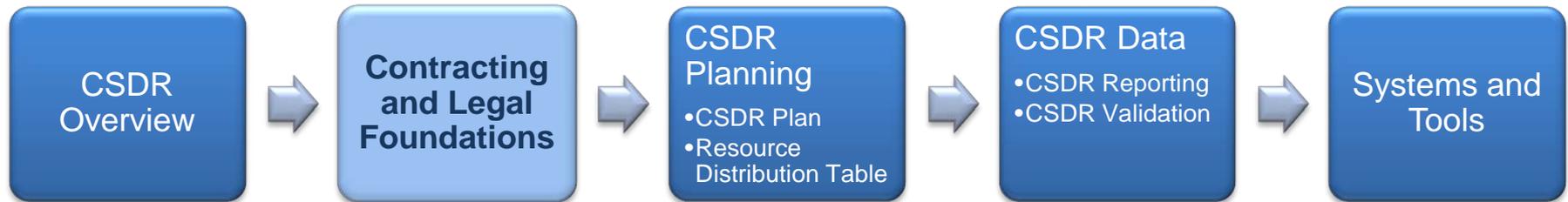
CSDR IPT Members

- **Government Program Office** – Establish and manage contract process for individual MDAPs, inform DCARC of all contracts that will breach reporting thresholds *prior to release of Request for Proposal (RFP)*, submit CSDR plans and supporting documentation to DCARC for review and approval
- **Component Cost Organizations** – ODASA-CE, NCCA, and AFCAA ensure that CSDR plans provide the necessary insight for cost estimates
- **DCARC** – Facilitate CSDR planning and reporting
- **OSD CAPE** – Review and approve CSDR plans to ensure necessary data is collected for estimates
- **Reporting Contractors** – Submit CSDRs in accordance with CSDR Plans to DCARC for review and approval
- **PARCA** – Manage Earned Value Management (EVM) performance, oversight and governance
 - Will be a CSDR IPT member to ensure program management and cost estimating purposes are satisfied



Contracting and Legal Foundations

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Contracting

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- It is imperative to ensure the CSDR requirement is contracted correctly to facilitate reporting
- Action is required pre-RFP through contract award, and throughout duration of contract (e.g., contract modifications)
- CSDR reporting is required by multiple legal documents

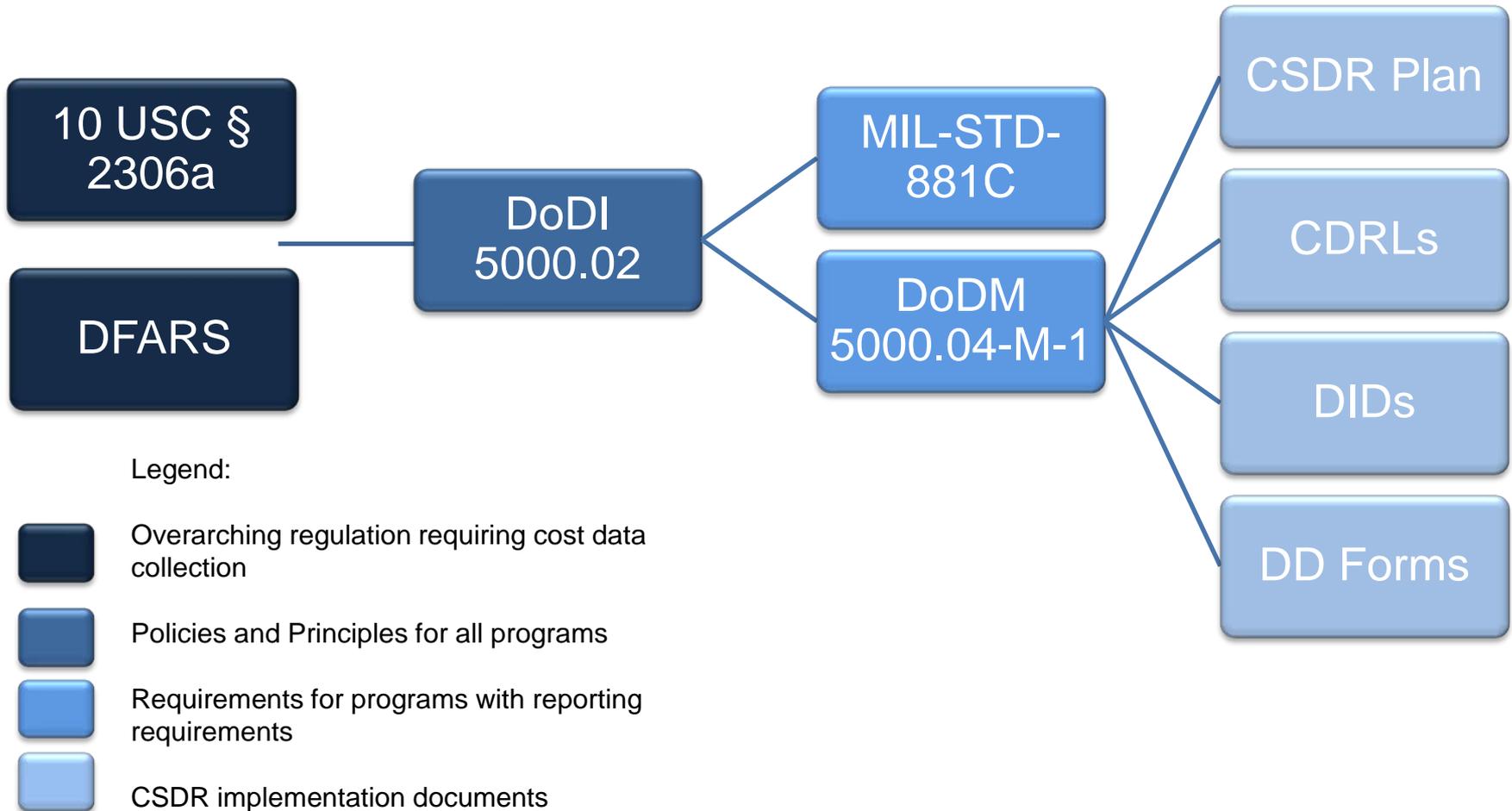
The CSDR plans and requirements must be included in the Request for Proposal (RFP). This allows the contractors to map their accounting systems to collect costs in accordance with the data reporting structure.



Legal Foundations for Reporting

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What mechanisms enforce CSDRs?





Overarching Legal Foundations

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- 10 USC § 2306a - Cost or pricing data
 - Contractors and subcontractors are required to make cost or pricing data available
- DFARS (Defense Federal Acquisition Regulation Supplement)
 - Clause 252.234-7003
 - Contractors required to base CSDR reporting on *actual* cost collection against the CCDR DID descriptions and submit CCDRs with the pricing proposal
 - Clause 252.234-7004
 - Contractors required to submit CCDRs and SRDRs in a timely manner in accordance with the DIDs and to require CSDR reporting from all subcontractors at any tier with a subcontract that exceeds \$50 million
 - Clause 242.503-2(b)
 - The CSDR process must be discussed in post-award conferences



Program Level Legal Requirements

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- DoDI 5000.02 (Operation of the Defense Acquisition Management System)
 - Provides the policies and principles that govern the defense acquisition system for all programs
 - Establishes a management framework and identifies specific statutory and regulatory reports
- DoDM 5000.04-M-1 (CSDR Manual)
 - Serves as the primary requirements document for the development, implementation, and operation of the CSDR system for all ACAT I Programs with contracts that breach the CSDR reporting threshold
 - Prescribes procedures and instructions for DoD stakeholders in the CSDR process to ensure that data is accurate, consistent, and quickly made available
- MIL-STD-881C (Work Breakdown Structures for Defense Materiel Items)
 - Establishes mandatory procedures for all programs required to report by DoDI 5000.02
 - Contains standard Work Breakdown Structures (WBS) with definitions that allow for uniformity through a consistent and visible framework for defense materiel items and contracts



Contract Level Forms and Requirements

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- **CSDR Plan (DD Form 2794)**
 - Identifies data reporting structure, submission events, and required reports
- **Data Item Descriptions (DIDs)**
 - Provides preparation instructions and requirements of information that must be submitted for each report type
- **DD Forms**
 - Ensures data is delivered in a standard format for all required CCDRs
- **Contract Data Requirements List (CDRLs) (DD Form 1423-1)**
 - Contracting mechanism that requires contractors to deliver CSDRs using the required Data Item Descriptions (DIDs) and forms

Final versions of the CDRLs (DD Form 1423-1) must be signed by the government Program Office and forwarded to the DCARC within 30 days of contract award/modification



Contracting & Legal Foundations Summary

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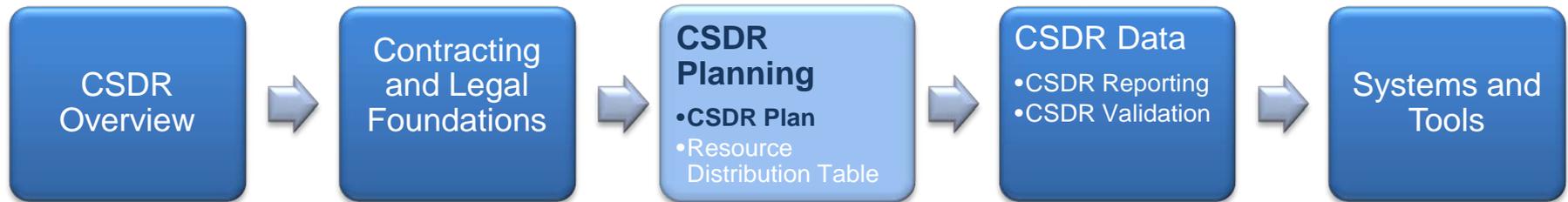
- A number of documents provide a foundation for efficient and consistent submittal of quality CSDRs
- Ensuring the CSDR requirement is in the RFP and put on contract at award is essential to:
 - Confirming the cost accounting system is setup to collect costs accurately in accordance with the DIDs and CSDR plan
 - Avoiding additional costs caused by adding CSDR requirements after contract award
- Discussing CSDR requirements in the post-award meeting is essential to:
 - Verifying the requirements are understood and costs will be reported correctly
 - Certifying CSDR requirements are flowed down to all subcontracts that breach the reporting threshold

It is essential to contact DCARC prior to RFP to implement the necessary requirements



CSDR Planning: CSDR Plan

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CSDR Planning

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- CSDR Planning consists of the steps crucial to ensuring that CSDR plans are created to collect the data needed by the cost estimating community
 - Requires input from all members of the CSDR IPT
 - Communicate what data is needed, when the data is needed, and how the data will be reported



CSDR Plans (DD 2794)

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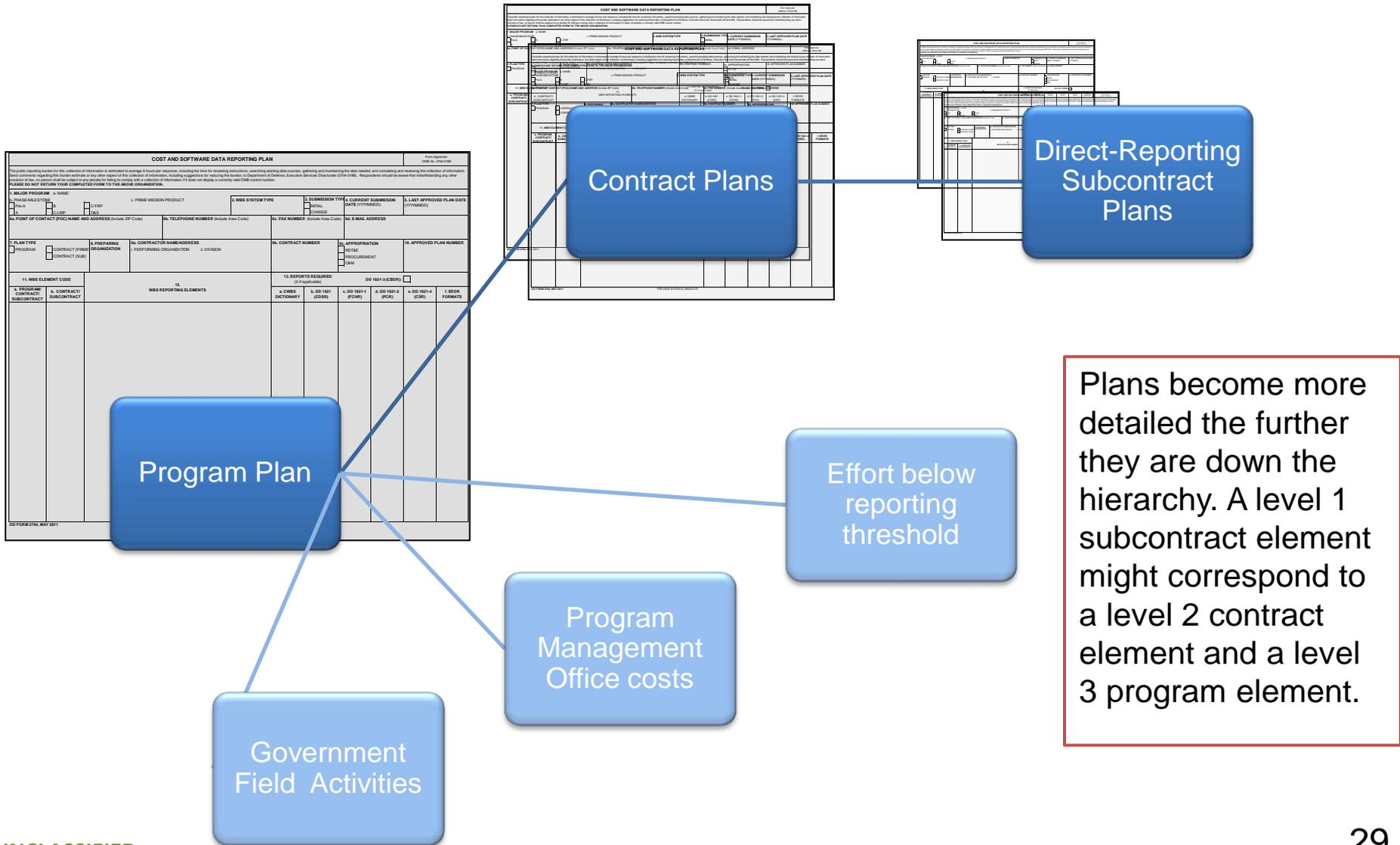
What is a CSDR Plan?

- CSDR Plans (DD Form 2794) summarize all CSDR data requirements
 - Creating CSDR plans includes determining the correct data reporting structure, required reports, and reporting schedule
 - CSDR Plans communicate this information through a hierarchical structure
 - **Program CSDR plans** encompass all effort for a program in a phase or milestone, but do not require cost reporting
 - **Contract and subcontract CSDR plans** are at a lower level of detail, and are specific to a single contract and contractor



CSDR Plan Relationship

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DD Form 2794 (Page 1)

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- Cost and Software Data Reporting Plans (DD Form 2794) contain the data reporting structure and reports required per data reporting element

COST AND SOFTWARE DATA REPORTING PLAN						Form Approved OMB No. 0704-0188					
The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.											
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.											
1. MAJOR PROGRAM a. NAME: JAZZ-49 - Air-to-Air Missile											
b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-FRP <input type="checkbox"/> C-LRIP <input checked="" type="checkbox"/> C-S		c. PRIME MISSION PRODUCT Air-to-Air Missile		2. WBS SYSTEM TYPE Missile System		3. SUBMISSION TYPE <input type="checkbox"/> INITIAL <input checked="" type="checkbox"/> CHANGE	4. CURRENT SUBMISSION DATE (YYYYMMDD) 20120202	5. LAST APPROVED PLAN DATE (YYYYMMDD) 20111205			
6a. POINT OF CONTACT (POC) NAME AND ADDRESS (include ZIP Code) John Doe 121 Fake St Patuxent River, MD 12345			6b. TELEPHONE NUMBER (include Area Code) 301-555-5555		6c. FAX NUMBER (include Area Code) 301-555-5555	6d. E-MAIL ADDRESS john.doe@navy.mil					
7. PLAN TYPE <input type="checkbox"/> PROGRAM <input checked="" type="checkbox"/> CONTRACT (PRIME) <input type="checkbox"/> CONTRACT (SUB)		8. PREPARING ORGANIZATION Air-to-Air Missiles PMA-259		9a. CONTRACTOR NAME/ADDRESS i. PERFORMING ORGANIZATION: Fake Company ii. DIVISION: Missiles and Fire Control 1151 E Fake St Tucson, AZ 12345		9b. CONTRACT NUMBER XXXXX-YY-X-XXXX	9c. APPROPRIATION <input checked="" type="checkbox"/> RDT&E <input type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M	10. APPROVED PLAN NUMBER N-11-E-C1(R)			
11. WBS ELEMENT CODE		12. WBS REPORTING ELEMENTS				13. REPORTS REQUIRED (X if applicable)		DD 1921-3 (CBDR): <input checked="" type="checkbox"/>			
a. PROGRAM/ CONTRACT/ SUBCONTRACT	b. CONTRACT/ SUBCONTRACT					a. CWBS DICTIONARY	b. DD 1921 (CDSR)	c. DD 1921-1 (FCHR)	d. DD 1921-2 (PCR)	e. DD 1921-4 (CSR)	f. SRDR FORMATS
1.0	1.0	JAZZ-49 - Air-to-Air Missile				X	X	X			X
1.1	1.1	Air Vehicle				X	X	X			X
1.1.1	1.1.1	Airframe				X	N/A				X
1.1.2	1.1.2	Propulsion Subsystem				X	N/A				X
1.1.3	1.1.3	Power and Distribution				X	N/A				X
1.1.4	1.1.4	Guidance				X	X				X
1.1.4.1	1.1.4.1	Guidance Software (Unique)				X	X				X
1.1.4.2	1.1.4.2	Guidance Software (FMS Unique)				X	X				X
1.1.4.3	1.1.4.3	Guidance Software Development (Large Target Unique)				X	X				X
1.1.5	1.1.5	Navigation				X	X				
1.1.6	1.1.6	Controls				X	X				
1.1.7	1.1.7	Communications				X	X				
1.1.8	1.1.8	Payload				X	N/A				
1.1.9	1.1.9	Reentry System				X	N/A				
1.1.10	1.1.10	Post Boost System				X	X				
1.1.11	1.1.11	Ordnance Initiation Set				X	N/A				
1.1.12	1.1.12	On Board Test Equipment				X	N/A				
1.1.13	1.1.13	On Board Training Equipment				X	X				
1.1.14	1.1.14	Auxiliary Equipment				X	N/A				
1.1.15	1.1.15	Air Vehicle Software				X	X				X
1.1.16	1.1.16	Air Vehicle Integration, Assembly, Test and Checkout				X	X				
1.2	1.2	Encasement Device				X	N/A				
1.3	1.3	Command and Launch				X	N/A				
1.4	1.4	Missile System Software				X	X	X			X
1.5	1.5	Missile System Integration, Assembly, Test and Checkout				X	X	X			
1.6	1.6	Systems Engineering				X	X	X			
1.7	1.7	Program Management				X	X	X			
1.8	1.8	System Test and Evaluation				X	X	X			
1.9	1.9	Training				X	N/A				
1.10	1.10	Data				X	N/A				
1.11	1.11	Peculiar Support Equipment				X	X	X			
1.11.1	1.11.1	Test and Measurement Equipment				X	X				
1.11.2	1.11.2	Support and Handling Equipment				X	X				
1.12	1.12	Common Support Equipment				X	N/A				
1.13	1.13	Operational/Site Activation				X	X	X			
1.14	1.14	Industrial Facilities				X	X	X			
1.15	1.15	Initial Spares and Repair Parts				X	X	X			
Subtotal Cost						X					
Reporting Contractor G&A						X					
Reporting Contractor Undistributed Budget						X					
Reporting Contractor Management Reserve						X					
Reporting Contractor FCCM						X					
Total Cost						X					
Reporting Contractor Profit/Loss or Fee						X					
Total Price						X					

Metadata
(Blocks 1-10)

Data Reporting
Structure
(Blocks 11-12)

Reports
Required
(Block 13)



DD Form 2794 (Page 2)

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- CSDR plans also provide the various submission events and respective reports, as well as applicable information or special contractor instructions

Submission Events
(Block 14)

14. CSDR SUBMISSION DATES				
a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)
1	CWBS Dictionary	LRIP 1: CWBS Submission	20120430	20120630
2	1921, 1921-1	Initial Report: LRIP 1	20120430	20120630
3	SRDR Initial	SRDR Initial: LRIP 1	20120430	20120630
4	SRDR Final	SRDR Final: LRIP 1	20140430	20140630
5	1921, 1921-1	Final Report: LRIP 1	20140430	20140630

16. REMARKS

1. Describe significant accounting changes from previous accounting period in the Remarks section of the reports, if applicable.

2. DD Form 1921-3 Contractor Business Data Report:
 a. The Contractor Business Data Report is prepared by and for the business entity (e.g., business unit, segment, or site) responsible for submitting the Forward Pricing Rate Proposal (FPRP) representing the basis for Forward Pricing Rate Agreement (FPRA) negotiations with the government.
 b. Reports are submitted annually at the end of the contractor's fiscal year.
 c. Data for Future Years should be reflective of the number of years contained in the most current document, i.e., the FPRP or the FPRA. If the document applies to more than three future years, attach additional future year sheets as required. In the absence of these documents, estimates should be provided for three future years.

3. The contractor must modify the PMP and WBS element 1.0 for each CCDR submission to reflect the corresponding LRIP for the submission. (E.g., The name of WBS element 1.0 for submission # 5 must state, "JAZZ-49 - Air-to-Air Missile (LRIP 1)).

4. For WBS element 1.12 (Common Support Equipment) the contractor should break out the prices and units of the various consumables for this contract (e.g., consumables for guidance and control and propulsion) in the Remarks section of each 1921 report submission.

Remarks
(Block 15)



Blocks 1 – 10: CSDR Planning: Metadata

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COST AND SOFTWARE DATA REPORTING PLAN					Form Approved OMB No. 0704-0188		
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1. MAJOR PROGRAM a. NAME: JAZZ-49 - Air-to-Air Missile b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-FRP <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> C-LRIP <input type="checkbox"/> O&S		c. PRIME MISSION PRODUCT Air-to-Air Missile		2. WBS SYSTEM TYPE Missile System	3. SUBMISSION TYPE <input type="checkbox"/> INITIAL <input checked="" type="checkbox"/> CHANGE	4. CURRENT SUBMISSION DATE (YYYYMMDD) 20120202	5. LAST APPROVED PLAN DATE (YYYYMMDD) 20111205
6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP Code) John Doe 121 Fake St Patuxent River, MD 12345			6b. TELEPHONE NUMBER (Include Area Code) 301-555-5555	6c. FAX NUMBER (Include Area Code) 301-555-5555	6d. E-MAIL ADDRESS john.doe@navy.mil		
7. PLAN TYPE <input type="checkbox"/> PROGRAM <input checked="" type="checkbox"/> CONTRACT (PRIME CONTRACT (SUB))		8. PREPARING ORGANIZATION Air-to-Air Missiles PMA-259	9a. CONTRACTOR NAME/ADDRESS i. PERFORMING ORGANIZATION Fake Company ii. DIVISION Missiles and Fire Control 1151 E Fake St Tucson, AZ 12345		9b. CONTRACT NUMBER XXXXX-YY-X-XXXX	9c. APPROPRIATION <input checked="" type="checkbox"/> RD&E <input checked="" type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M	10. APPROVED PLAN NUMBER N-11-E-C1(R)

All Plans

- Program's official **MDAP name, phase/milestone** of the program
- **Prime mission product:** official military designation of the end item
- **WBS System Type:** matches the MIL-STD-881C appendix used to create the plan's data reporting structure
- Program office/**preparing organization** CSDR point of contact's information
- **Submission type:** initial if the plan has not been approved before, and change if it is a revision
- **Current submission date:** the date the plan is submitted to the DCARC
- **Last approved plan date:** only for plan revisions
- **Plan type:** program, prime or subcontract
- **Plan number:** left blank, to be assigned by the DCARC

Metadata is the data that explains all other data reported

Blocks 1 – 10: CSDR Planning: Metadata

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COST AND SOFTWARE DATA REPORTING PLAN					Form Approved OMB No. 0704-0188
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Program Plan

- **Appropriation type, contractor name/address, and contract number** are left blank—program plans are not contract specific

Contract/Subcontract Plan

- **Contractor/subcontractor name/address/division** and **contract number** should be entered. If unknown report as “TBD.” Contract number is always the prime contract number
- **Appropriation types:** select all used to fund the contract. If multiple appropriation types are selected, submissions will need to report these costs discretely

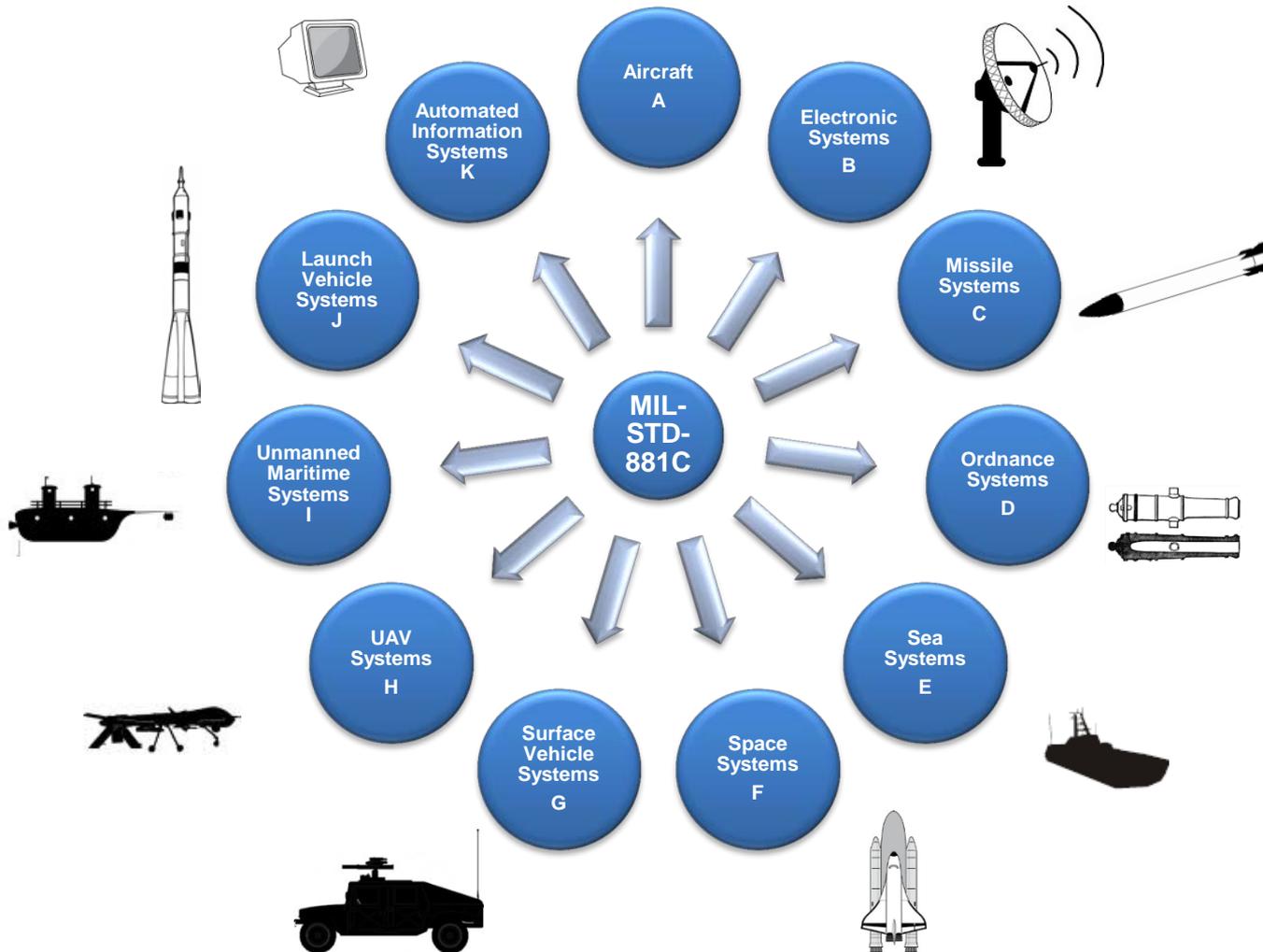
Metadata is the data that explains all other data reported



MIL-STD-881C Appendices

OSD CAPE

- MIL-STD-881C Appendices provide consistent and visible frameworks for different categories of defense systems





MIL-STD-881C Implementations

OSD CAPE

- MIL-STD-881C requires the following implementations:
 - Data reporting structure defined to Level 4 or 5 for some appendices
 - Breakout of integration, assembly, test and checkout and software at many hardware subsystems
 - Includes a mechanism for expanding data reporting structure for program-unique items and new technologies (Elements called “Other [Component] 1...n (Specify)” and similar)

Product-oriented elements (shown to Level 3)

Appendix C: Missile Systems

	Level 1	Level 2	Level 3
1.0	Missile System		
1.1	Air Vehicle		
1.1.1		Airframe	
1.1.2		Propulsion Subsystem 1...n (Specify)	
1.1.3		Power and Distribution	
1.1.4		Guidance	
1.1.5		Navigation	
1.1.6		Controls	
1.1.7		Communications	
1.1.8		Payload	
1.1.9		Reentry System	
1.1.10		Post Boost System	
1.1.11		Ordnance Initiation Set	
1.1.12		On Board Test Equipment	
1.1.13		On Board Training Equipment	
1.1.14		Auxiliary Equipment	
1.1.15		Air Vehicle Software Release 1...n	
1.1.16		Air Vehicle Integration, Assembly, Test and Checkout	
1.2	Encasement Device		
1.2.1		Encasement Device Integration, Assembly, Test and Checkout	
1.2.2		Encasement Device Structure	
1.2.3		Encasement Device Software Release 1...n	
1.2.4		Other Encasement Device Subsystems 1...n (Specify)	
1.3	Command and Launch		
1.3.1		Command and Launch Integration, Assembly, Test and Checkout	
1.3.2		Surveillance, Identification and Tracking Sensors	
1.3.3		Launch and Guidance Control	
1.3.4		Communications	
1.3.5		Launcher Equipment	
1.3.6		Auxiliary Equipment	
1.3.7		Booster Adapter	
1.3.8		Command and Launch Software Release 1...n	
1.3.9		Other Command and Launch 1...n (Specify)	
1.4	Missile System Software Release 1...n		
1.5	Missile System Integration, Assembly, Test and Checkout		



MIL-STD-881C Implementations

Appendix L: Common Elements

OSD CAPE

Elements of cost consistent across all DoD acquisition programs must be reported to level 2 and to level 3, if applicable

	Level 1	Level 2	Level 3
1.6		System Engineering	
1.7		Program Management	
1.8		System Test and Evaluation	
1.8.1			Development Test and Evaluation
1.8.2			Operational Test and Evaluation
1.8.3			Mock-ups / System Integration Labs (SILs)
1.8.4			Test and Evaluation Support
1.8.5			Test Facilities
1.9		Training	
1.9.1			Equipment
1.9.2			Services
1.9.3			Facilities
1.10		Data	
1.10.1			Technical Publications
1.10.2			Engineering Data
1.10.3			Management Data
1.10.4			Support Data
1.10.5			Data Depository
1.11		Peculiar Support Equipment	
1.11.1			Test and Measurement Equipment
1.11.2			Support and Handling Equipment
1.12		Common Support Equipment	
1.12.1			Test and Measurement Equipment
1.12.2			Support and Handling Equipment
1.13		Operational/Site Activation	
1.13.1			System Assembly, Installation and Checkout on Site
1.13.2			Contractor Technical Support
1.13.3			Site Construction
1.13.4			Site/Ship/Vehicle Conversion
1.13.5			Sustainment/Interim Contractor Support
1.14		Industrial Facilities	
1.14.1			Construction/Conversion/Expansion
1.14.2			Equipment Acquisition or Modernization
1.14.3			Maintenance (Industrial Facilities)
1.15		Initial Spares and Repair Parts	

Appendix L: Common Elements



Using “Other” Elements

OSD CAPE

- “Other” elements are included in the MIL-STD-881C to allow for subsystems that cannot be cleanly mapped or need additional breakout

1...n Construct for a related set of elements

MIL-STD-881C Appendix A

Reporting Element Code	Reporting Element
1.0	F-51 Fighter
1.1	Air Vehicle
...	...
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release 1...n
1.1.9	Air Vehicle Integration, Assembly, Test and Checkout

Implementation

Reporting Element Code	Reporting Element
1.0	F-51 Fighter
1.1	Air Vehicle
...	...
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Releases
1.1.8.1	Air Vehicle Software Release 1
1.1.8.2	Air Vehicle Software Release 2
1.1.8.3	Air Vehicle Software Release 3
1.1.9	Air Vehicle Integration, Assembly, Test and Checkout

1...n Construct for independent components

MIL-STD-881C Appendix A

Reporting Element Code	Reporting Element
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.1.6	Other Airframe Components 1..n (Specify)
1.1.2	Propulsion

Implementation

Reporting Element Code	Reporting Element
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.1.6	Stealth Special Airframe Part A
1.1.1.7	Stealth Special Airframe Part B
1.1.2	Propulsion

Data Reporting Structure Rules and Conventions

OSD CAPE

Reporting Element Code	Reporting Element
1.0	F/A-18E/F Super Hornet Aircraft (F/A-18E/F)
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.2.1	Forward Fuselage
1.1.1.2.2	Center Fuselage
1.1.1.2.3	Aft Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.4.1	Avionics Integration, Assembly, Test, and Checkout
1.1.4.2	Communication/Identification
1.1.4.3	Navigation/Guidance (Flight Aids/Diagnostics)
1.1.4.4	Mission Computer/Processing
1.1.4.5	Fire Control (AN/APG-99)
1.1.4.6	Data Display and Controls
1.1.4.7	Survivability
1.1.4.7.1	AEA Kits
1.1.4.7.2	Group A Kits
1.1.4.8	Reconnaissance

10000	Aircraft System
11000	Air Vehicle
11100	Avionics
11110	Avionics Integration, Assembly, Test, and Checkout
11120	Radar Spares
11130	Navigation/Guidance
11131	Flight Aids/Diagnostics
11140	Computer
11150	Support Equipment
11160	Data Display and Controls
11170	Survivability
11171	AEA Kits
11172	Other Survivability 1...n (Specify)
11200	Airframe

- **Always:**
 - Comply with MIL-STD-881C
 - Report to Level 3 or below for hardware items
 - Report to Level 2 or below for common elements
 - Use a logical numbering scheme for element codes (1.0, 1.1, 1.1.1, etc.)
 - Specify military designations, (e.g., *AN/APG-99*)
- **Never:**
 - Change the structure of a MIL-STD-881C Appendix
 - Change the sequencing of MIL-STD-881C elements
 - Change the names of MIL-STD-881C elements (except to specify military designations)
 - Have a single child element
 - Leave “1...n (Specify)” or “Other” in the final data reporting structure (the other items must be named)



Blocks 11 – 12: Data Reporting Structure

OSD CAPE

11. WBS ELEMENT CODE		12. WBS REPORTING ELEMENTS
a. PROGRAM/ CONTRACT/ SUBCONTRACT	b. CONTRACT/ SUBCONTRACT	
1.0	1.0	JAZZ-49 - Air-to-Air Missile
1.1	1.1	Air Vehicle
1.1.1	1.1.1	Airframe
1.1.2	1.1.2	Propulsion Subsystem
1.1.3	1.1.3	Power and Distribution
1.1.4	1.1.4	Guidance
1.1.4	1.1.4.1	Guidance Software (Unique)
1.1.4	1.1.4.2	Guidance Software (FMS Unique)
1.1.4	1.1.4.3	Guidance Software Development (Large Target Unique)
1.1.5	1.1.5	Navigation
1.1.6	1.1.6	Controls
1.1.7	1.1.7	Communications
1.1.8	1.1.8	Payload
1.1.9	1.1.9	Reentry System
1.1.10	1.1.10	Post Boost System
1.1.11	1.1.11	Ordnance Initiation Set
1.1.12	1.1.12	On Board Test Equipment
1.1.13	1.1.13	On Board Training Equipment
1.1.14	1.1.14	Auxiliary Equipment
1.1.15	1.1.15	Air Vehicle Software
1.1.16	1.1.16	Air Vehicle Integration, Assembly, Test and Checkout
1.2	1.2	Encasement Device
1.3	1.3	Command and Launch
1.4	1.4	Missile System Software
1.5	1.5	Missile System Integration, Assembly, Test and Checkout
1.6	1.6	Systems Engineering
1.7	1.7	Program Management
1.8	1.8	System Test and Evaluation
1.9	1.9	Training
1.10	1.10	Data
1.11	1.11	Peculiar Support Equipment
1.11	1.11.1	Test and Measurement Equipment
1.11	1.11.2	Support and Handling Equipment
1.12	1.12	Common Support Equipment
1.13	1.13	Operational/Site Activation
1.14	1.14	Industrial Facilities
1.15	1.15	Initial Spares and Repair Parts
		Subtotal Cost
		Reporting Contractor G&A
		Reporting Contractor Undistributed Budget
		Reporting Contractor Management Reserve
		Reporting Contractor FCCM
		Total Cost
		Reporting Contractor Profit/Loss or Fee
		Total Price

Program Plan

- Concise and covers all work on the program
- Product elements are usually only to Level 3
- Common elements are only to Level 2

Contract/Subcontract Plan

- Use the MIL-STD-881C appendix relevant to the end item
 - Appendix B (Electronic Systems) is used if the contractor is making an assembly due to its adaptability
- Expand the product oriented elements beyond Level 3 to accommodate:
 - High value, high-risk, and high-technical-interest items
 - Subcontracted items (expanded to the subcontracted item, not its subassemblies)
- Common elements beyond Level 2 if needed
- Add “Summary elements”



Aircraft System

Program Data Reporting Structure

OSD CAPE

MIL-STD-881C Appendix A

Program Plan derived from MIL-STD-881C Appendix A

Reporting Element Code	Reporting Element
1.0	Aircraft System
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.1.6	Other Airframe Components 1...n (Specify)
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.3.1	Vehicle Subsystem Integration, Assembly, Test, and Checkout
...	...
1.1.3.13	Other Subsystems 1...n (Specify)
1.1.4	Avionics
1.1.4.1	Avionics Integration, Assembly, Test, and Checkout
...	...
1.1.4.13	Other Avionics Subsystems 1...n (Specify)
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release 1...n
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout
1.2	Systems Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.4.1	Development Test and Evaluation
...	...
1.4.5	Test Facilities
1.5	Training
1.5.1	Equipment
...	...
1.5.3	Facilities
1.6	Data
1.6.1	Technical Publications
...	...
1.6.5	Data Depository
1.7	Peculiar Support Equipment
1.7.1	Test and Measurement Equipment
1.7.2	Support and Handling Equipment

Product-Oriented Elements

Common Elements

Reporting Element Code	Reporting Element
1.0	Aircraft System
1.1	Air Vehicle
1.1.1	Airframe
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release
1.1.9	Air Vehicle Integration, Assembly, Test and Checkout
1.2	Systems Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts



Program/Contract Relationship

OSD CAPE

Program Data Reporting Structure

Reporting Element Code	Reporting Element
1.0	Aircraft System - F51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release
1.1.9	Air Vehicle Integration, Assembly, Test and Checkout
1.2	Systems Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts

Contract Data Reporting Structure

Reporting Element Code	Reporting Element
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.4.1	Avionics Integration, Assembly, Test and Checkout
1.1.4.2	Communication/Identification
1.1.4.3	Navigation/Guidance
1.1.4.3.1	Navigation
1.1.4.3.1.1	Navigation Hardware
1.1.4.3.1.2	Navigation Software
1.1.4.3.1.3	Navigation Integration, Assembly, Test and Checkout
1.1.4.3.2	Guidance
1.1.4.4	Mission Computer/Processing
1.1.4.5	Fire Control
...	...
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software
1.1.9	Air Vehicle Integration, Assembly, Test and Checkout
1.2	Systems Engineering
...	...
1.11	Initial Spares and Repair Parts

Level 3 program elements expanded to Levels 4 and below of contract data reporting structure



Prime/Subcontract Relationship

OSD CAPE

Prime Contract Data Reporting Structure (MIL-STD-881C Appendix A – Aircraft Systems)

REPORTING ELEMENT CODE	REPORTING ELEMENTS
1.0	Aircraft System
1.1	Air Vehicle
1.1.1	Airframe
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.4.1	Avionics Integration, Assembly, Test, and Checkout
1.1.4.2	Communication/Identification
1.1.4.3	Navigation/Guidance
1.1.4.4	Mission Computer/Processing
1.1.4.5	Fire Control (XYZ Radar)
1.1.4.6	Data Display and Controls
1.1.4.7	Survivability
1.1.4.8	Reconnaissance
1.1.4.9	Automatic Flight Control
...	...
1.1.4.13	Other Avionics Subsystems A
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release
1.1.9	Air Vehicle IAT&C
1.2	System Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts

Subcontract Data Reporting Structure (MIL-STD-881C Appendix B – Electronic Systems)

REPORTING ELEMENT CODE	REPORTING ELEMENTS
1.0	Electronic System -- XYZ Radar
1.1	Radar System
1.1.1	Antenna
1.1.2	Radar Electronics
1.1.3	Power Supply
1.1.4	Power Conditioner
1.1.5	Rack/Structure
1.1.6	Radar Software Release
1.1.7	Radar Integration, Assembly, Test and Checkout
1.2	Platform Integration, Assembly, Test and Checkout
1.3	System Engineering
1.4	Program Management
1.5	System Test and Evaluation
1.6	Training
1.6.1	Equipment
1.6.2	Services
1.6.3	Facilities
1.7	Data
1.8	Peculiar Support Equipment
1.9	Common Support Equipment
1.10	Operational/Site Activation
1.11	Industrial Facilities
1.12	Initial Spares and Repair Parts

Element 1.0 from subcontract data reporting structure directly corresponds to element 1.1.4.5 from prime contract data reporting structure



Block 14: Submission Events

OSD CAPE

14. CSDR SUBMISSION DATES				
a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)
1	CWBS Dictionary	LRIP 1: CWBS Submission	20120430	20120630
2	1921, 1921-1	Initial Report: LRIP 1	20120430	20120630
3	SRDR Initial	SRDR Initial: LRIP 1	20120430	20120630
4	SRDR Final	SRDR Final: LRIP 1	20140430	20140630
5	1921, 1921-1	Final Report: LRIP 1	20140430	20140630

Program Plan

- Lists all submission events on contract/subcontract CSDR plans for the phase/milestone

Contract/Subcontract Plan

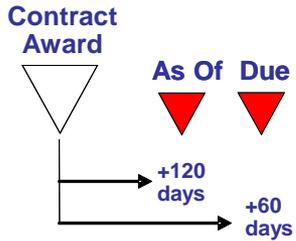
- Lists submission events for the contract/subcontract
 - Always contain Dictionary, 1921, and 1921-1 report requirements
 - As of dates represent the end date of the data (e.g., if LRIP 1 is delivered 20140630, the data for “Final Report: LRIP 1” report will be as of this date)
 - Due dates are 60 days after as of dates to allow the contractor time to prepare the reports

Event name drives report submission. Notify DCARC of schedule slips.

Block 14: Submission Events

OSD CAPE

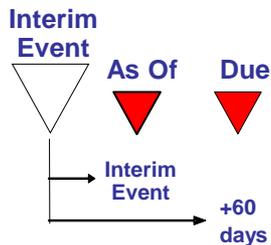
Initial Reporting



Initial Reports:

- If required by the CSDR IPT, Initial Reports are due 60 days after Initial Baseline Review or 180 Days after contract award to ensure ability to report is consistent with CSDR Plan and CDRLs

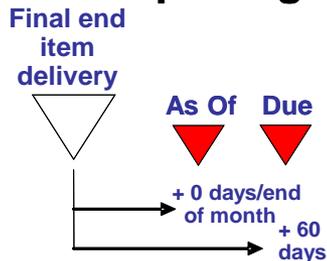
Interim Reporting



Interim Reports:

- Development efforts
 - Annual Reports
 - Reports are to be delivered after major events (e.g., first flight, completion of prototype) and before major milestones
- Production efforts
 - Annual Reports
 - Upon delivery of each lot
 - At the mid-point of construction for programs with extended production schedules (e.g., ships)

Final Reporting



Final Reports:

- Due within 60 Days after the final delivery of the major end item(s) and when total contract costs are at least 95% complete

Contract Data Reporting Structure Dictionary is due with the first cost report (or earlier, to facilitate report planning) and update of the Dictionary must be submitted if changes occur



Block 15: Remarks

OSD CAPE

Program Plan

- **Program Overview** defines the program to a sufficient level of detail regarding the utility, purpose, and history
- **Contracting approach** explains the contract types that will be used in the acquisition strategy
- **Quantity Overview** states the number of units expected to be procured in this phase/milestone

15. REMARKS

1. Program Overview:

The JAZZ-49 Air-to-Air missile program will develop a short range heat seeking weapon to be employed in both offensive and defensive counter-air operations. Offensively, the weapon will assure that US and combined air forces have the ability project the necessary power to insure dominant maneuver. In the defensive counter-air role, the missile system will provide a key capability for force protection. The multi-service JAZZ-49 development will field a high off-boresight capable short range heat seeking missile to be employed on US Air Force and Navy/Marine Corps fighters. The missile will be used both for offensive and defensive counter-air operations as a short range, launch and leave air combat missile that uses infra red guidance. The JAZZ-49 will complement longer range radar guided missiles. The JAZZ-49 system design approach incorporates a fifth-generation staring Focal Plane Array seeker for robust guidance performance, and Infrared Countermeasure resistance and jet vane control for extremely agile turning performance.

2. Contracting Approach:

The contract for LRIP 1 was Firm Fixed Price (FFP) under a Procurement Price Commitment Curve (PPCC), software upgrades for LRIP 1 were under a Cost Plus Fixed Fee (CPFF) contract. LRIP 1 was contracted with a single year sole source contracts to Fake Company.

3. Quantity Overview:

Prior Years: 100; LRIP 1: 1240 (These quantities are for both Navy and Air Force)



Block 15: Remarks

OSD CAPE

Contract/Subcontract Plan

- Includes DCARC standard instructions:
 - Explanation of accounting changes
 - 1921-3 requirement
 - 1921-2 requirements if necessary (technical characteristics and reporting by unit/lot)
- Additional directives per the CSDR IPT to provide data not required by the DIDs

15. REMARKS

1. Describe significant accounting changes from previous accounting period in the Remarks section of the reports, if applicable.

2. DD Form 1921-3 Contractor Business Data Report:

a. The Contractor Business Data Report is prepared by and for the business entity (e.g., business unit, segment, or site) responsible for submitting the Forward Pricing Rate Proposal (FPRP) representing the basis for Forward Pricing Rate Agreement (FPRA) negotiations with the government.

b. Reports are submitted annually at the end of the contractor's fiscal year.

c. Data for Future Years should be reflective of the number of years contained in the most current document, i.e., the FPRP or the FPRA. If the document applies to more than three future years, attach additional future year sheets as required. In the absence of these documents, estimates should be provided for three future years.

3. The contractor must modify the PMP and WBS element 1.0 for each CCDD submission to reflect the corresponding LRIP for the submission. (E.g., The name of WBS element 1.0 for submission # 5 must state, "JAZZ-49 - Air-to-Air Missile (LRIP 1)).

4. For WBS element 1.12 (Common Support Equipment) the contractor should break out the prices and units of the various consumables for this contract (e.g., consumables for guidance and control and propulsion) in the Remarks section of each 1921 report submission.

DD FORM 2794 (PAGE 2), MAY 2011

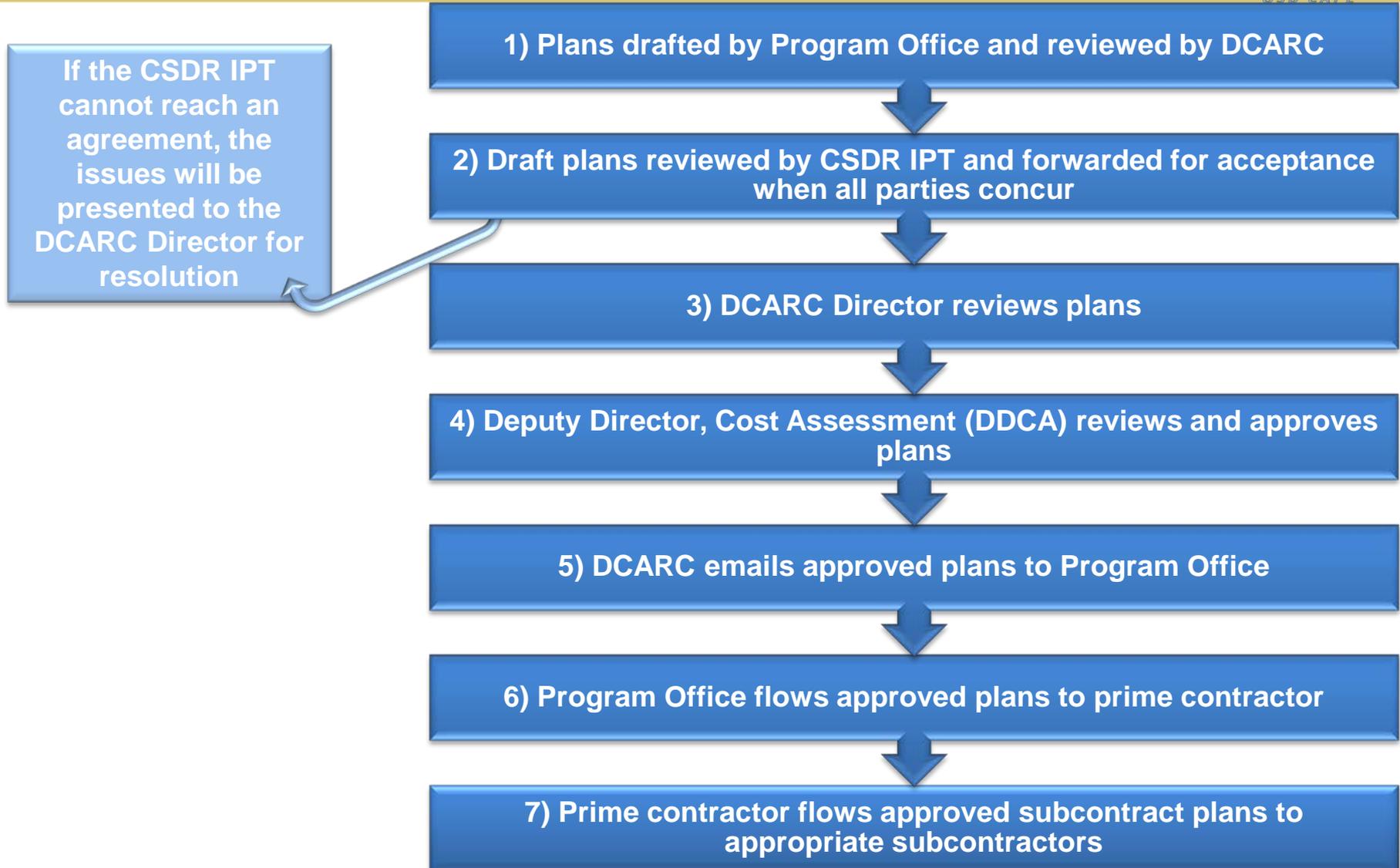
PREVIOUS EDITION IS OBSOLETE

Remarks allow the CSDR IPT freedom to request additional information that increases report utility



Plan Approval Process

OSD CAPE





Formal Plan Revisions

OSD CAPE

- All program, contract, and subcontract CSDR plans are considered “living documents” that are updated as the program requirements, scope, and schedule evolve and change.

Revision Required

Additional scope added that is not captured by the existing data reporting structure or submission events

Changes to report frequency or report types

Changes in make/buy decisions that affect Level 3 and Level 4 elements

Foreign Military Sales (FMS) dollars added to accommodate foreign nation participation

Contract stop-work, program restructuring or re-baseline efforts

Formal Revision Not Required

The following changes are made administratively by the DCARC:

Changes to submission event dates

Date changes must be requested by the Program Office Point of Contact via the CSDR Submit-Review website and are only acceptable when they are for a programmatic schedule slip

Changes to element applicability

Adding a Contractor Name and Contract Number after award



CSDR Plan Approval Documentation

OSD CAPE

- The following documents/information must be submitted before a new or revised plan is approved:

Document/Information	New Plan	Revised Plan
Draft Plan (DD 2794)	X	X
Resource Distribution Table (RDT)	X	X
Draft RFP/SOW Language	X	
Draft CDRLs (DD 1423-1)	X	
Acquisition Schedule	X	X



Challenges in CSDR Plan Development

OSD CAPE

- Multiple variants
 - Example: Multiple variants can be broken out by the data reporting structure or submission events. Based on other factors (e.g., accounting system) the method chosen may result in skewed data
- Multiyear Procurement
 - Example: Economic order quantity material buys can skew cost reporting by lot
- Multiple appropriations included on one contract
 - Example: Production and O&M may require separate CSDR plans
- ID/IQ Contracts
 - Example: A single data reporting structure does not always provide the necessary insight for all task orders (TOs) or delivery orders (DOs)
- Foreign Military Sales (FMS)
 - Example: Hardware or software differences of FMS vs. US government deliverables may affect CSDR plans



CSDR Plan Summary

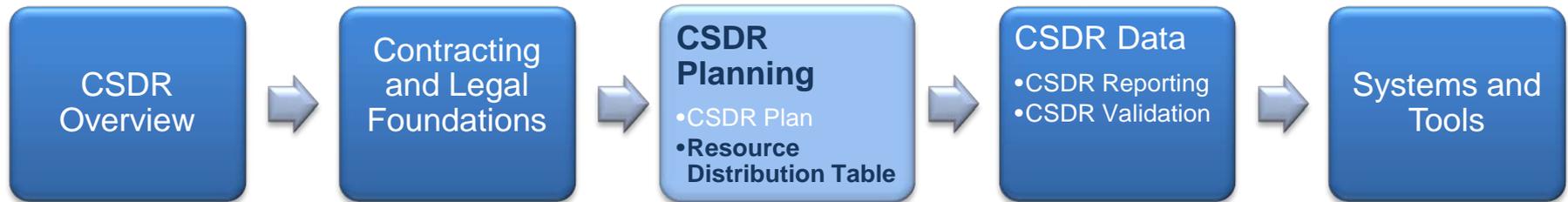
OSD CAPE

- CSDR plans are essential to receiving the cost data needed at the correct level of detail by identifying:
 - Data reporting structure level required for reporting key/high risk items
 - Types of reports required for each data reporting structure element
 - Frequency of reporting
 - Special contractor instructions needed to obtain additional information



CSDR Planning: Resource Distribution Table

OSD CAPE





Resource Distribution Table (RDT)

OSD CAPE

What is the purpose of a Resource Distribution Table?

- RDTs are designed to provide an overview of a program or contract's costs by contractor/ organization and data reporting elements
 - **Program RDT** - Identifies total dollar values and software dollar values for a program in a particular phase
 - **Contract RDT** - Identifies a single contract's associated total and software dollar values
- Established as an early tracking mechanism to ensure all appropriate reporting requirements are implemented
- Developed with input from the Government Program Office and prime contractor(s)



Program vs. Contract RDT

OSD CAPE

Program RDT

Program Office

- Government office for an acquisition program

Prime Contracts

- Companies whose contractual customer is the government

Government Furnished Equipment (GFE)

- Hardware/software procured by the Government for contractor use

Field Office

- Government test agencies, labs, and software organizations

Contract RDT

Prime Contract

- A single contract

Subcontracts

- A company whose contractual customer is another company, including interorganizational work orders (IWOs)
- Direct-Reporting Subcontractor (reports directly to DCARC)
- Non-Reporting Subcontractor (does not report directly to DCARC)
- *Subcontract prices are always included in the Prime Contract's cost reports*



Program RDT Example

OSD CAPE

Estimated dollar values determine which entities are subject to the CSDR requirement

Key Organizations

Total Program RDT Dollar Value reconciles with budget for given acquisition phase

		Program Office	Prime Contractors				GFE	Field Office		Cumulative Program Total
Prime Contractor or Sub-Contractor		Program Office	Prime	Prime	Prime	Prime	Prime	Prime	Field Office	
Description		Acquisition Manager	Aircraft	Fuselage	Surveillance Radar	Health Monitoring System	Fire Control Radar	Engine	Central Computer	Testing
Contractor/Organization Name		NAVAIR SYSCOM	FlyByNight Corp.	Ryan Industries	Apex Air	Phoenix, Inc.	FCR, Inc.	Propulsion, Inc.	CCP, Inc.	Naval Air Weapons Station
Contractor/Organization Location		Patuxent River, MD	St. Louis, MO	Los Angeles, CA	Bozeman, MT	Tampa, FL	Seattle, WA	Baltimore, MD	Raleigh, NC	China Lake, CA
Contract Number		N/A	X00019-08-C-XXXX	X00019-10-C-XXXX	X00019-10-C-XXXX	X00019-11-C-XXXX	X00136-06-C-XXXX	X914F5-10-D-XXXX	X00012-06-C-XXXX	N/A
Total Program Office or Contract/Effort Value (Estimated), TYSM		\$150.0	\$2,500.0	\$300.0	\$1,215.0	\$670.0	\$210.0	\$370.0	\$15.0	\$3.0
Subtotal Software Contract Value (Estimated), TYSM		\$0.0	\$150.0	\$0.0	\$300.0	\$12.0	\$5.0	\$0.0	\$15.0	\$0.0
Government Organization or PARM		PMA XXX	PMA XXX				NAVAIR	N/A	SPAWAR	PMA XXX
CSDR Direct Reporting per CWIPT (Yes/No)		N/A	Yes	Yes	Yes	Yes	Yes	Yes	No	No
SRDR Direct Reporting per CWIPT (Yes/No)		N/A	Yes	No	Yes	No	No	No	No	No
1.0	Aircraft System		X							
1.1	Air Vehicle		X	X						
1.1.1	Airframe		X							
1.1.2	Propulsion							X		
1.1.3	Vehicle Subsystems									
1.1.4	Avionics				X	X	X		X	
1.1.5	Armament/Weapons Delivery		X							
1.1.6	Auxiliary Equipment		X							
1.1.7	Furnishings and Equipment									
1.1.8	Air Vehicle Software Release 1 ... n				X		X			
1.1.9	Air Vehicle Integration, Assembly, Test & Checkout		X		X					
1.2	Systems Engineering	X	X							
1.3	Program Management	X	X							
1.4	System Test and Evaluation		X				X			X
1.5	Training		X							
1.6	Data Link									
1.7	Peculiar Support Equipment									
1.8	Common Support Equipment									
1.9	Operational/Site Activation									
1.10	Industrial Facilities									
1.11	Initial Spares and Repair Parts		X		X	X	X	X	X	

"X" indicates that a company is producing a given element, "N/A" or blank indicates no costs associated with the element



Contract RDT Example

Total Contract RDT Dollar Value reconciles with contract value

Prime Contractor or Sub-Contractor	Prime Contractor		Subcontractors			Propulsion, Inc Subcontractors
	Total	In-House	Total	Subcontractor 1	Subcontractor 2	Subcontractor 1
Description	Aircraft			Engine	Navigation Radar	Motor
Contractor/Organization Name	FlyByNight Corp.			Propulsion, Inc.	AvionicsRUS, Inc.	Motors, Inc.
Contractor/Organization Location	St. Louis, MO			Baltimore, MD	Palo Alto, CA	Los Angeles, CA
Contract Number	X00019-08-C-XXXX			X00019-08-C-XXXX	X00019-08-C-XXXX	X00019-08-C-XXXX
Total Program Office or Contract/Effort Value (Estimated), TY\$M	\$2,500.0	\$1,622.0	\$878.0	\$370.0	\$130.0	\$75.0
Subtotal Software Contract Value (Estimated), TY\$M	\$150.0	\$150.0	\$0.0	\$0.0	\$0.0	\$0.0
Program Office	PMA-XXX			N/A	N/A	N/A
CSDR Direct Reporting per CWIPT (Yes/No)		Yes		Yes	Yes	Yes
SRDR Direct Reporting per CWIPT (Yes/No)		No		No	Yes	No

WBS NUMBER	WBS Element Name				L3	L4
	L1	L2	L3	L4		
1.0	Aircraft System					X
1.1		Air Vehicle				X
1.1.1			Airframe			X
1.1.1.1				Airframe IAT&C		X
1.1.1.2				Fuselage		X
1.1.1.3				Wing		X
1.1.1.4				Empennage		X
1.1.1.5				Nacelle		X
1.1.1.6				Other Airframe Components		X
1.1.2			Propulsion			X
1.1.3			Vehicle Subsystems			X
1.1.4			Avionics			X
1.1.4.1				Avionics IAT&C		X
1.1.4.2				Communication/Identification		X
1.1.4.3				Navigation/Guidance		X
1.1.4.4				Mission Computer/Processing		N/A
1.1.4.5				Fire Control		X
1.1.4.12				Avionics Software Release		X
1.1.5			Armament/Weapons Delivery			X
1.1.6			Auxiliary Equipment			X
1.1.7			Furnishings and Equipment			X
1.1.8			Air Vehicle Software Release			N/A
1.1.9			Air Vehicle IAT&C			X
1.2			Systems Engineering			X
1.3			Program Management			X
1.4			System Test and Evaluation			X
1.5			Training			X
1.6			Data			X
1.7			Peculiar Support Equipment			N/A
1.8			Common Support Equipment			N/A
1.9			Operational / Site Activation			N/A
1.10			Industrial Facilities			N/A
1.11			Initial Spares and Repair Parts			X

Contract Data Reporting Structure

Subcontractor reporting may be required for 2nd and 3rd tier subcontractors above the reporting threshold



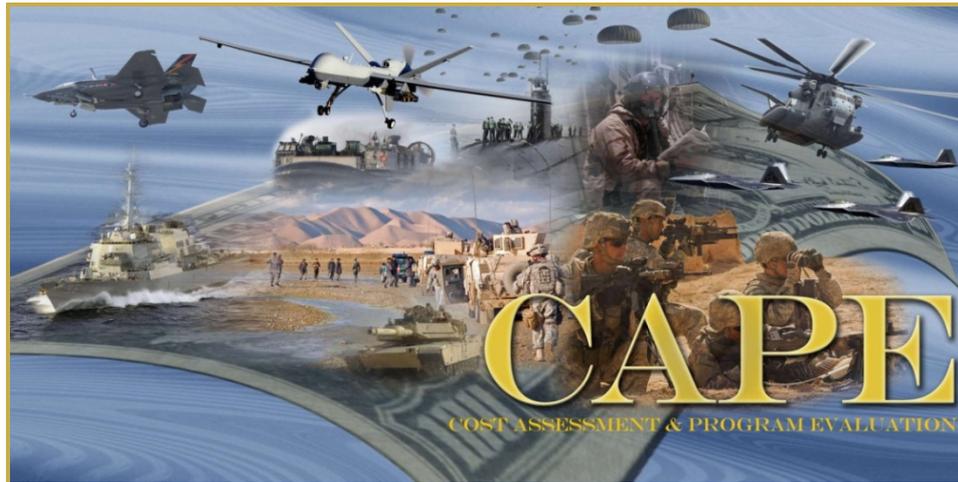
RDT Summary

OSD CAPE

- RDTs are essential to:
 - Understand where program and contract dollars are being spent
 - Identify who is doing what work
 - Ensure all appropriate reporting requirements are implemented

cPet Desktop Demo

CSDR Plans and RDTs





cPet Desktop and Web

OSD CAPE

- cPet, CSDR Planning and Execution Tool, is used by government and industry to easily generate CSDR Plans and Reports
 - Government can create and modify CSDR plans and RDTs
 - Industry can prepare and validate reports
- cPet contains multiple functions that assist at all stages of the CSDR process

cPet Desktop: <http://dcarc.cape.osd.mil/CSDR/cPet.aspx>

cPet Web: <https://service.dcarc.cape.osd.mil/cPetWeb/>



cPet Plan and RDT Development

OSD CAPE

- cPet must be used by the Program Office in the creation of the CSDR Plans and RDTs
 - Allows users to tailor MIL-STD-881C appendices to make data reporting structures and create new CSDR plans
 - Allows users to upload existing CSDR plans to be easily reviewed and edited
 - Provides warnings where data are missing or invalid
 - Ensures plan is formatted properly for validation

Cost Assessment Data Enterprise (CADE) Project

CADE Vision for CSDR Training Huntsville, AL June 2014

Bess Dopkeen
bess.r.dopkeen.civ@mail.mil
Last Updated: June 2, 2014

CAPE
COST ASSESSMENT & PROGRAM EVALUATION

Agenda

- **Objectives**
- **Comprehensiveness & Vision**
- **Current Collaboration & Government CSDR Evolution**
- **Community Integration**
- **Government-Industry Cooperation Opportunities**
- **History – Analysis Evolution**
- **Today's Process**
- **Vision – Total Analyst Access**
- **Inc 1.5 (Today – released end of May 2014) & Incs 2-4**



CADE Objectives/KPPs

OSD CAPE

Improve Analyst Productivity

- Increase output per unit time
- Provide near real-time access to data, more data, and less burden on the analyst to retrieve and process
- Reduce time for analyst to climb the program familiarization learning curve

Effectiveness

- Enable more comprehensive assessments
- Gain insight from previous analysts
- Facilitate telling the program's "story", holistic analysis

Data Quality and Reporting Compliance Improvement

- Includes all the Department's cost data - both EVM and CSDRs

Comprehensiveness

- Having all information at the analyst's fingertips – a centralized virtual library

Source Data Transparency



Comprehensiveness & Our Vision

OSD CAPE

Comprehensive Data Availability:

Having all information at the analyst's fingertips – a centralized virtual library with everything in it

- Cost Data (CSDRs/1921s): contains all an analyst needs to build an estimate
 - Need to consider what data is needed at all times: AoAs, MS As, MS Bs, MS Cs, FRPs, Sustainment decisions, MYPs, etc
- CARDS: contains all programmatic and technical descriptions an analyst needs to build an estimate
- Capturing Institutional Knowledge: what analysts need to know about the data
 - Harnessing knowledge of the entire community

Our Vision for CADE and CSDRs (1921s):

Cost analysts will have all of this data and institutional knowledge at their fingertips. It will be the exception – not the rule – that we have to go back to industry to do our estimates.



Current Collaboration

OSD CAPE

Cross-Agency Working Groups to Improve CSDRs:

1921, -1, -2: Duncan Thomas, NCCA

1921-3: Mike Biver, CAPE

Sustainment (1921-4): Tom Henry, CAPE

SRDR: Ranae Woods, AFCAA

MAIS: Jim Judy, DASA-CE

CCDR Tech Data Reporting: Facilitating Commodity Groups' Efforts: Greg Hogan, AFCAA

- Space: Greg Hogan, AFCAA
- Other Commodities: In Process, Volunteers Welcome

Office Collaboration:

NCCA

JCARD and CCRL
NCCA leadership discussion

MDA

Consolidated Cost Research
Working Group

Army

JIAT/ACDB
DASA-CE Visit

AFCAA

AFCAA joint effort on CADE OpYr1
Aviation CIPT, Missile Database
Contracts Database

AT&L

DAVE (DAMIR, AIR, Kaleidoscope)

Service POCs:

Army: Sean Vessey
sean.d.vessey.civ@mail.mil

Navy: John Fitch
john.fitch@navy.mil

Air Force: Ethan Henry
ethan.m.henry.civ@mail.mil



CADE Integration

OSD CAPE

FFRDC



Other Gov't

GAO Reports



Law & Language



JDocs Budget Info

AT&L



AIR Authoritative Documents



DAMIR:



SAR, APB, DAES



Kaleidoscope Visualization

Cost Community

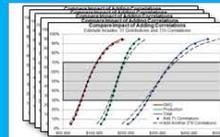
SAR Database



Collaborative Cost Research Library



Contracts Database Tool



Joint CSRUH

JCARD Cost Database



JIAT/ACDB: Cost, Technical & Contract Data

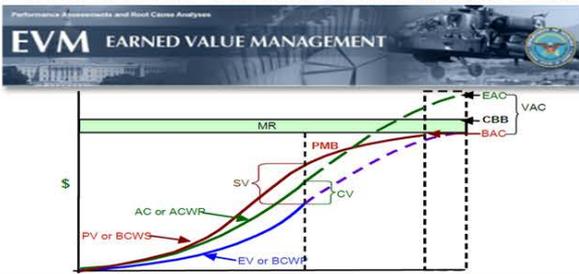
Tri-Service Missile Database/Handbook

Air Force Financial Management & Comptroller



CADE Foundations

PARCA: EVM Cost and Schedule Data



Quick Access to Data & Visual Analysis Tools



DCARC: CSDR Cost and Software Data

The DCARC logo features the letters 'D C A R C' in large yellow font. Below it, there is a collage of military-related images including a satellite, a ship, and a soldier. At the bottom, the text reads "Enhancing DoD Cost Analysis" and "DACIMS Enhancing DoD Cost Analysis".



Opportunities for Government-Industry Cooperation

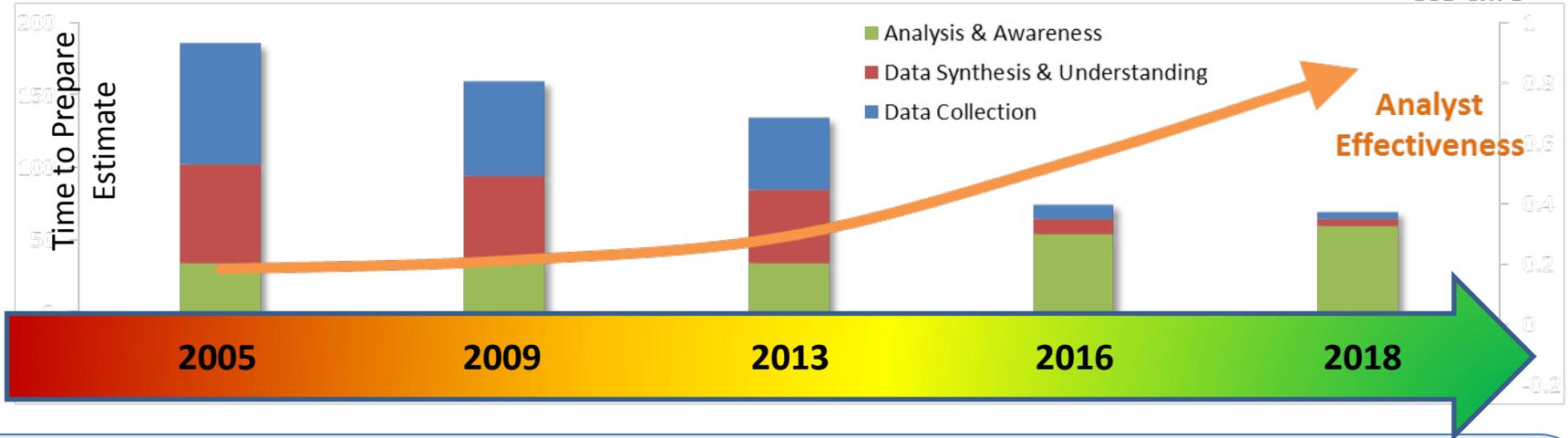
OSD CAPE

- **Contractor/Government Implementation Efficiency**
 - Mechanize and automate data transfer
 - Reduce errors
 - Reduce down-the-line questions
 - Improve contractor-to-government communication and insight
- **CADE: The Department's Unified Initiative to Collect, Organize and Use Data**
 - We'll have useable data in one place for all government analysts to use
 - Today there are 4-6 or more offices collecting, normalizing, reviewing, storing cost data at one time -- this happens at every major review
 - Collect it only once!
- **Access to Contractor Data**
 - Near real-time access to data, and less burden on the analyst to retrieve and process
 - Easily check if the data is showing up correct
 - See how the government is looking at the data

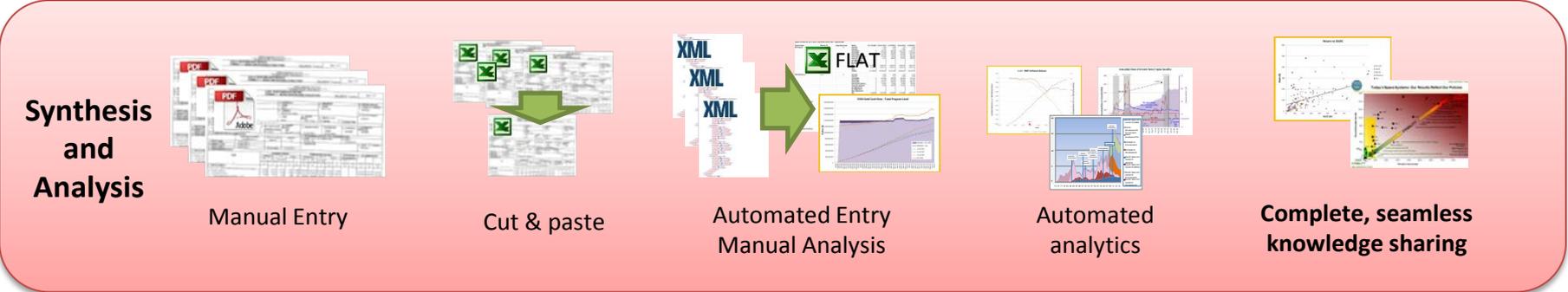


Analysis Evolution

OSD CAPE



- | | | | | | |
|---------------------|--|---|--|---|--|
| Data Sources | <ul style="list-style-type: none"> • Program Office • DACIMS • SARs • DAES • Contractors • Service O&S • Data Libraries • Colleagues Network | <ul style="list-style-type: none"> • EVM-CR • DACIMS • DAMIR • Contractors • Service O&S • Data Libraries | <ul style="list-style-type: none"> • EVM Visual Display • DCARC Bulk Download • DAMIR • Contractors • Service O&S • Data Libraries | <ul style="list-style-type: none"> • CADE Total Access • Service O&S • Data Libraries | <ul style="list-style-type: none"> • CADE Total Access 2.0 |
|---------------------|--|---|--|---|--|

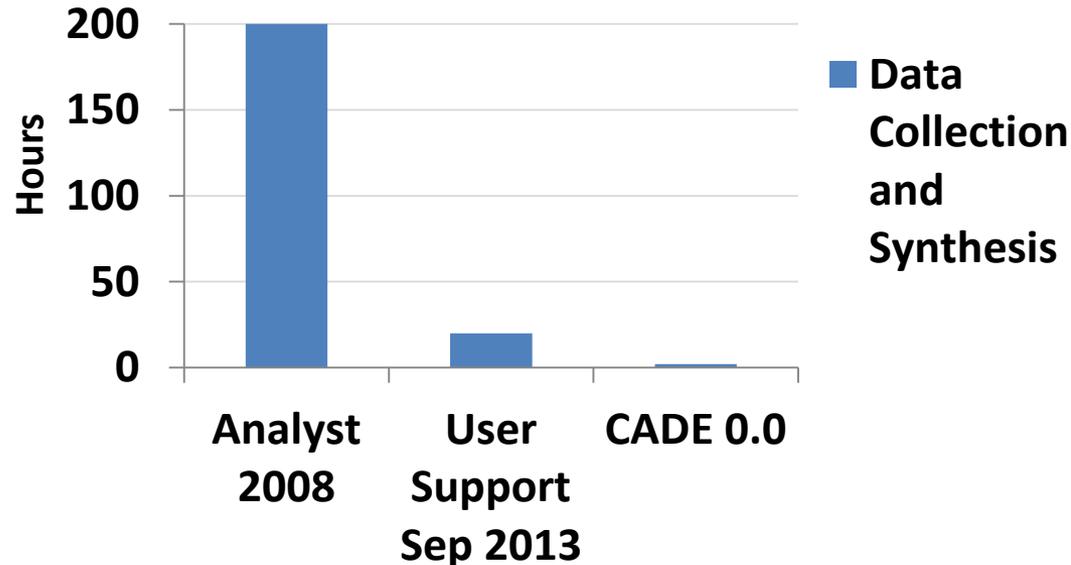




Today's Process

OSD CAPE

Time for CPR Data Collection and Syntheses



Analyst in 2008:

200 hours, typing in by hand selected data over time

User Support Sep 2013:

20 hours to bulk download and format ~40 contracts

CADE 0.0:

Retrieve data from 40 contracts over time within 2hrs

CADE Vision of the Future: Total Analyst Access

OSD CAPE

Seamless integration
of authoritative data sources

The screenshot displays the CADE Knowledge Portal interface. At the top, it features the Department of Defense logo and navigation links for DCARC HOME, BROWSE PROGRAMS, DASHBOARD, TOOLS, SOURCE DATA, and CONTACT US. The main header includes 'Knowledge Portal', 'DCARC CAPE', and 'CADE Total Access'. A search bar contains 'USS Voyager' and other related terms. Below the search bar, there are options to 'Build Portfolio', 'Export Data', and 'Zoom In'. The central 'Portfolio Analysis' section shows a line chart with multiple colored lines representing different contracts (Contract #1 CDR to Contract #9 CDR) over time from Oct-96 to Mar-13. The chart shows cumulative cost or effort increasing over time, with vertical dashed lines marking key contract milestones. On the left, there are filters for Program, Task, and Level, and a list of contracts with checkboxes. On the right, a sidebar provides details for the 'USS Voyager' program, including RDT&E (\$14,268M), Procurement (\$7,628M), and Units (2). It also lists milestones, key program events, and community knowledge.



CADE Increment 0

OSD CAPE

Knowledge Portal | DCARC CAPE | CPR, IMS, O&S, and SRDR VATs | CADE Total Access

DCARC HOME | SELECT PROGRAMS | DASHBOARD | RETRIEVE FILES | TOOLS | [Help](#)

VD Test User | [Log Out](#)

My Programs

Program	EVM Contract Tasks	CCDR Contracts	DAMIR Program Schedule
Program 1	✓	✓	✓

Contract Task	# Periods	Last Available	Last Refreshed
Task 1	15	3/31/2010	1/27/2012

Performance Over Time | Element Performance Comparison

Primary Y Axis Metric: Cumulative Scale: \$

Secondary Y Axis Metric: Off

Export Data | Zoom In | Standard Views

Cumulative Summary-SubTotal (PMB) (\$)

Month

— Cumulative BAC

Filter Data: Reporting Level: Summary | Element: SubTotal (PMB) | X-Axis: Month | Add Event

Start: 1/31/2009 | End: 3/31/2010 | Set Decimals: 0

SV, CV, SPI, CPI, TCPI, MR, UB

Standard Views

EVM CPR Views

Custom Views

Standard Views

EVM CPR Data

CCDR Contract Data

Program Milestones

Download O & S Tools

Search for and add programs to list of favorite programs

Navigate to other programs via "My Programs" tool bar

Export data being viewed

Navigate to other data sources for the selected program

CPR Visual Analysis via Custom and Standard Views within Dashboard

Link to download Navy and Air Force O&S Visual Analysis Tools

Demonstration

Increment 0.5 – New Functionality

Visual Display Administration

Welcome to the CADE Total Access Administration home page, please select a task below.

Administrator Functions:

- Home: Overview
- DAMIR Update
- Import Individual Cost Reports from CSOR SR
- Bulk Process 1921-1 Reports from CSOR SR
- Bulk Process 1921-2 Reports from CSOR SR
- View Errors
- Manage Tools
- Manage References

Administrative function for updating tools, resources, and external links

Quick program selector and favorites access

Program	Contract Task	Contract	Progress	Available
1	1921-1-1	1921-1-1	✓	✓
2	1921-1-2	1921-1-2	✓	✓
3	1921-2-1	1921-2-1	✓	✓
4	1921-2-2	1921-2-2	✓	✓
5	1921-2-3	1921-2-3	✓	✓
6	1921-2-4	1921-2-4	✓	✓
7	1921-2-5	1921-2-5	✓	✓
8	1921-2-6	1921-2-6	✓	✓
9	1921-2-7	1921-2-7	✓	✓
10	1921-2-8	1921-2-8	✓	✓
11	1921-2-9	1921-2-9	✓	✓
12	1921-2-10	1921-2-10	✓	✓
13	1921-2-11	1921-2-11	✓	✓
14	1921-2-12	1921-2-12	✓	✓
15	1921-2-13	1921-2-13	✓	✓
16	1921-2-14	1921-2-14	✓	✓
17	1921-2-15	1921-2-15	✓	✓
18	1921-2-16	1921-2-16	✓	✓
19	1921-2-17	1921-2-17	✓	✓
20	1921-2-18	1921-2-18	✓	✓
21	1921-2-19	1921-2-19	✓	✓
22	1921-2-20	1921-2-20	✓	✓
23	1921-2-21	1921-2-21	✓	✓
24	1921-2-22	1921-2-22	✓	✓
25	1921-2-23	1921-2-23	✓	✓
26	1921-2-24	1921-2-24	✓	✓
27	1921-2-25	1921-2-25	✓	✓
28	1921-2-26	1921-2-26	✓	✓
29	1921-2-27	1921-2-27	✓	✓
30	1921-2-28	1921-2-28	✓	✓
31	1921-2-29	1921-2-29	✓	✓
32	1921-2-30	1921-2-30	✓	✓

Army O&S VATs for multiple commodities (Aircraft, Combat, Wheeled Combat)

Improved navigation between View types

Milestone Widget: Add Milestones to Visual Displays

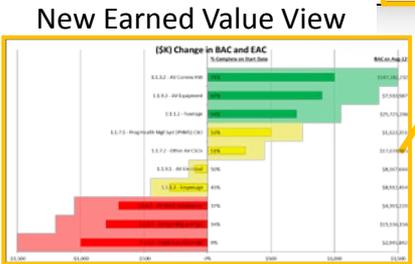
Program Events Widget: Define, Save & Add Program Events to Views

External Links Widget

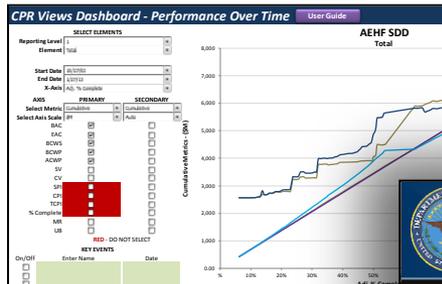
Collapsible widget area

Improved View navigation through panel selector

Enhanced CADE Total Access Design



Increment 1.0 – New Functionality



Saved View

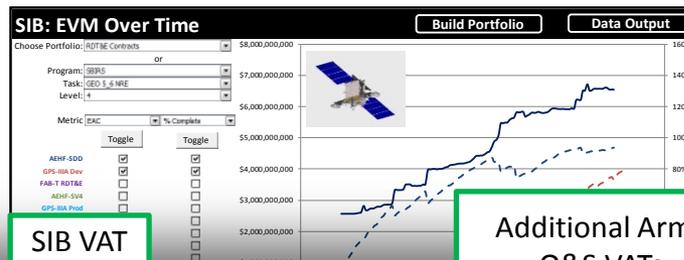
Saving a View stores the current options selected on the graph and stores them. Once saved, it may be used for any contract task in the future.

Give your Saved View a name:

Check to share View in CADE Community Knowledge

SAVE

Callout: 'Save View templates' (with floppy disk icon)

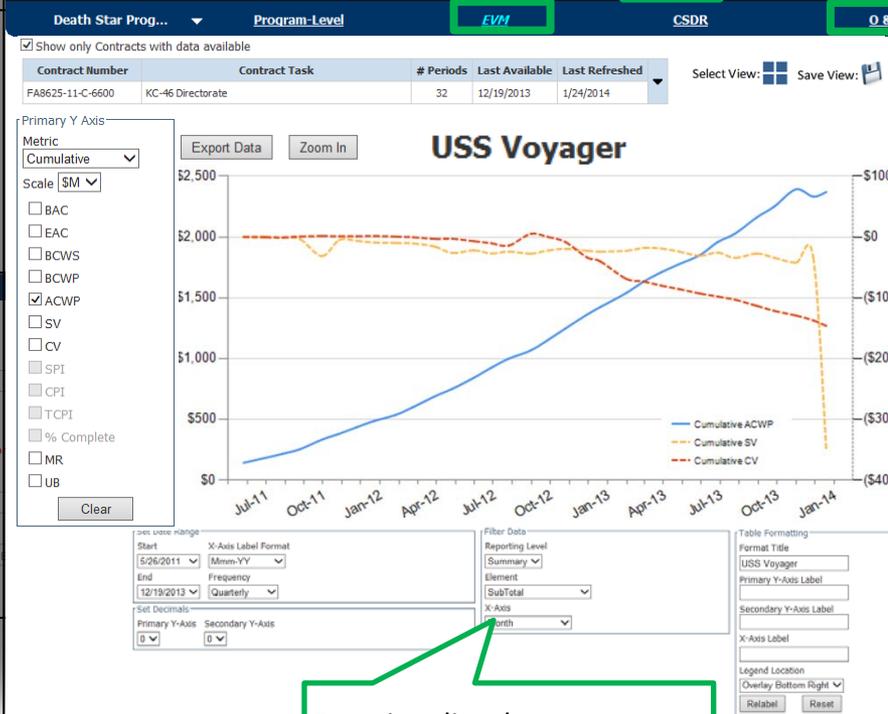


Additional Army O&S VATs (Tactical, Electronics)

Knowledge Portal DCARC CAPE CADE Tools

DCARC HOME ADMIN SEARCH PROGRAMS DASHBOARD RETRIEVE FILES **TOOLS** REFERENCES CONTACT US

VD Test User Log Out



Milestones

Milestone	Baseline	Threshold	Current
Milestone A	Jan. 2004	Sept. 2004	Mar. 2004

Key Program Events

- 3/27/2013 - LM closes LA ops.
- 10/18/2012 - Dev APB #3
- 9/3/2012 - New PM
- 6/30/2011 - First Flight

CADE Community Knowledge

4 Analysts have been assigned to this program.

- BDopkeen shared a PowerPoint.
- KHazel posted a link.
- BDopkeen posted "O&S cost responsibility is handled under the Logistics Directorate..."

CCRL Search

7 references pertain to USS Voyager.

- "Voyager Technical Documentation"
- "Briefing to Under Secretary for..."
- "CER for Voyager Development"...
- >LHuband: "Great CER w/ data visibility..."

External Links

- Defense Cost and Resource Center (DCARC)
- Data Warehouse
- DAMIR (AT&L)

Plot how key event dates have evolved over time; flag and comment key events

Post program info, links, notes, and documents

Search CCRL references

Cost Schedule Risk and Uncertainty Handbook

Ability to export data into corresponding CPR VAT format

Comment on your own post; remove flags or remove thread

Add New Knowledge

Post a Note:

Add Text:

Post information pertaining to your program.

Post

Upload a File:

Successfully uploaded "Indep. EAC Work..."

Enter File Type:

Excel Document

Add File Description:

Workbook containing calculations for the most recent independent...

Post

Flag posts to alter owner to potential information issues

Functionality change requests and updates; customize graph format and labels.



A Post Has Been Flagged!

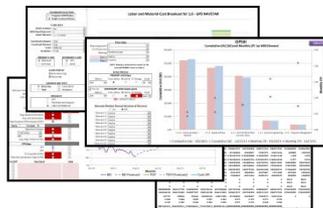
One or more of your posts has been flagged.

Please review your posting(s):

- Death Star Key Event: Jan. 14, 2013
- USS Voyager Community Knowledge: Jan. 3, 2013

Increment 1.5 Vision

CPR, IMS, CCDR and SRDR VATs



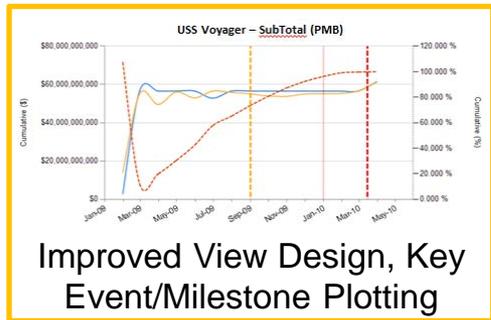
EVM Contract Efforts							
Task Name	First Report	Last Report	Next Report EAC (EPI)	Electronic CPR	Final/POF CPR	Ratio Status	CYBR
Task 1	4/15/2010	5/15/2011		X	X	X	X
Task 2	5/15/2010	5/15/2010		X	X	X	X
Task 3				X	X	X	X

CSDR Contract Plans						
Plan Name	First Submission	Last Submission	# of Submission Events	1921-1	1921-2	SRDR
19-04-C1-043702	3/25/2010	3/25/2010	1	✓	✓	X

Data Availability



Enhanced Program Search



Improved View Design, Key Event/Milestone Plotting

CADE Public Website



Search Public Web Sites

Month	CWBS Dictionary		CCDR (1921-1, 1921-2)		SRDR	
	%	#	%	#	%	#
Feb-14	85%	11/13	86%	19/22	86%	6/7
Jan-14	88%	7/8	95%	19/20	67%	6/9
Dec-13	90%	9/10	94%	15/16	100%	5/5
Nov-13	90%	9/10	100%	15/15	80%	4/5
Oct-13	81%	13/16	88%	23/26	60%	5/10
						3/4
						4/4
						6/8
						6/8
						4/5
						4/4
Mar-13	92%	11/12	95%	19/20	89%	9/9
Total	89%	118/132	94%	220/235	79%	62/78

Contractor Compliance Report Card

WBS CODE A	WBS CODE E	WBS CODE I	WBS CODE J	WBS CODE K	WBS CODE L	WBS CODE M	WBS CODE N	WBS CODE O	WBS CODE P	WBS CODE Q	WBS CODE R	WBS CODE S	WBS CODE T	WBS CODE U	WBS CODE V	WBS CODE W	WBS CODE X	WBS CODE Y	WBS CODE Z
1.0	1.1	1.1.1	1.1.1.1	1.1.1.1.1	1.1.1.1.1.1	1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	

Raw CCDR Access

USS Voyager (DAMIR)

Annual Funding Detail from DAMIR

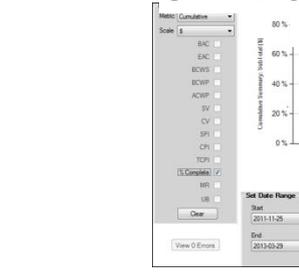
RDTE(TY\$): 7,446.3M

Procurement(TY\$): 5,944.2M

Units: 6

[View Annual Funding Detail](#)

CPR Visual Display Program-level Data Tables



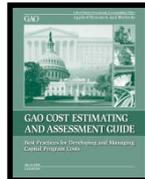
Appropriation	BY2002 \$M		Current APB		TY SM	
	SAR Baseline Prod Est	Current APB Production Objective/Threshold	Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDTE	5382.8	5485.3	6726.9	5542.2	7117.8	7446.3
Procurement	3233.0	5311.1	4744.8	4031.7	6565.5	5944.2
Flyaway	2656.0	-	4744.0	3414.4	-	5944.2
Recurring	2656.0	-	4744.0	3414.4	-	5944.2
Non Recurring	0.0	-	0.0	0.0	-	0.0
Support	0.0	-	0.0	0.0	-	0.0
Other Support	0.0	-	0.0	0.0	-	0.0
Initial Spares	0.0	-	0.0	0.0	-	0.0
MILCON	0.0	0.0	-	0.0	0.0	0.0
Acq O&M	0.0	0.0	-	0.0	0.0	0.0
Total	8515.8	11800.4	N/A	11470.9	9573.9	13683.3

CADE: Help Desk

- Data Retrieval
- Data Quality
- Data Visualization
- Tools
- Widgets
- Community Knowledge / Data Upload
- Suggestions / Feedback

Comment/Question: (Max 1024 chr)

CERS
 $y = ax^b$



O & S

V A T S

Increment 2.0 Vision

CPR, IMS, CCDR and SRDR VATs

Weapon System Contractor Access to Own Data

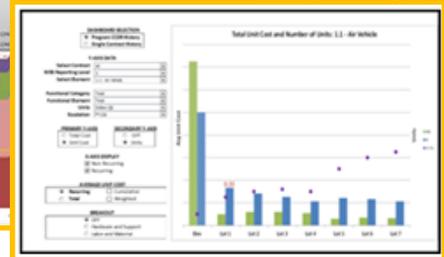


New website/portal design

CPR Visual Display

Program-level Visual Display

CCDR Visual Display

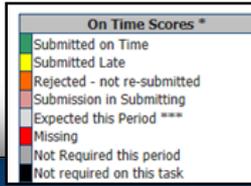


CCDR Data Browse

ACQUISITION PROGRAM	PROGRAM ELEMENT	PROGRAM ELEMENT TITLE	PROGRAM ELEMENT STATUS	PROGRAM ELEMENT TYPE	PROGRAM ELEMENT CLASSIFICATION	PROGRAM ELEMENT DESCRIPTION	PROGRAM ELEMENT START DATE	PROGRAM ELEMENT END DATE	PROGRAM ELEMENT FISCAL YEAR	PROGRAM ELEMENT BUDGET	PROGRAM ELEMENT ACTUALS
...

UNCLASSIFIED

Contractor Compliance Report Card



New Data Notification

Data Availability

First Report	Latest Report	# of Reports
4/18/2006	1/31/2014	78

	Sep-14	Oct-14	Nov-14	Dec-14	Jan-14	Feb-14
CPR						
*IPMR Cost						
*History						
Formatted Cost						

EVM Portfolio Visual Analysis

Share Saved Views

Bulk Download

- Download All CSDR Data
- Download All EVM Data

Continually expanding set of widget capabilities

CERs

$$y = ax^b$$

Enhanced CCRL-CADE integration

CADE: Help Desk

- Data Retrieval
- Data Quality
- Data Visualization
- Tools
- Widgets
- Community Knowledge / Data Upload
- Suggestions / Feedback

Comment/Question: (Max 1024 chr)

Post information pertaining to your program.

Attach:

UPLOAD

O & S

V A T S

Increment 3.0 Vision

CPR, IMS, CCDR and SRDR VATs

User Metrics

Contractor Compliance Report Card

Data Availability

EVM - Task 1

First Report	Latest Report	# of Reports
4/18/2006	1/31/2014	78

	Sep-14	Oct-14	Nov-14	Dec-14	Jan-14	Feb-14
CPR						
*IPMR Cost	█	█	○	○	○	○
*History						
Formatted Cost	█	█	○	○	○	○

On Time Scores *

- Submitted on Time
- Submitted Late
- Rejected - not re-submitted
- Submission in Submitting
- Expected this Period ****
- Missing
- Not Required this period
- Not required on this task

Top CADE Users

Ranking	Cade User	Total Hits
1	phardin	38
2	ccraig	35
3	mmetcal	34



Knowledge Portal DCARC CAPE

DCARC HOME BROWSE PROGRAMS DASHBOARD TOOLS SOURCE DATA CONTACT US

USS Voyager **SRDR Dashboard** Search Collapse Widgets

Program View: RDT&E: \$14,268M Procurement: \$7,628M Units: 2

Hours vs ESLOC (N=207)

Milestones

Milestone	APB Obj.	APB Thres.	Current
Concept Dem...	Jul. 2012	Dec. 2012	Apr. 2013
MSII/B	Feb. 2014	May 2013	May 2013

Key Program Events

- Mar. 2013 - LM closes LA ops
- Oct. 2012 - Dev. APB #3
- Sept. 2012 - New PM
- Jun. 2011 - First Flight

CADE Community

4 Analysts have been assigned to this program.

- BDopkeen shared a PowerPoint.
- KHazel posted a link.
- BDopkeen posted a note.
- Elogfren shared an Excel Document.

CCRL Search

The Collaborative Cost Research Library is an on document library that contains over 16,000 cost research files contributed by the services and its contractors. Search among these documents here.

External Links

Access AIR documents

Bulk Download

- Download All CSDR Data
- Download All EVM Data

Continually expanding set of widget capabilities

CPR Visual Display

Program-level Visual Display

CCDR Visual Display

Software Visual Display

IMS Visual Display

Example Program - Task Performance Overview as of Apr-13

- CADE: Help Desk**
- Data Retrieval
 - Data Quality
 - Data Visualization
 - Tools
 - Widgets
 - Community Knowledge / Data Upload
 - Suggestions / Feedback

Comment/Question: (Max 1024 chr)

CERs

$$y = ax^b$$


O & S

V A T S

Increment 4.0 Vision

CPR, IMS, CCDR and SRDR VATs

EVM - Task 1

Data Availability		First Report	Latest Report	# of Reports																																			
		4/18/2006	1/31/2014	78																																			
<table border="1"> <thead> <tr> <th></th> <th>Sep-14</th> <th>Oct-14</th> <th>Nov-14</th> <th>Dec-14</th> <th>Jan-14</th> <th>Feb-14</th> </tr> </thead> <tbody> <tr> <td>CPR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>*IPMR Cost</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>*History</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Formatted Cost</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Sep-14	Oct-14	Nov-14	Dec-14	Jan-14	Feb-14	CPR							*IPMR Cost							*History							Formatted Cost						
	Sep-14	Oct-14	Nov-14	Dec-14	Jan-14	Feb-14																																	
CPR																																							
*IPMR Cost																																							
*History																																							
Formatted Cost																																							

Contractor Compliance Report Card

On Time Scores *	
Submitted on Time	
Submitted Late	
Rejected - not re-submitted	
Submission in Submitting	
Expected this Period ****	
Missing	
Not Required this period	
Not required on this task	



Knowledge Portal DCARC CAPE

CADE Total Access

VD Test User Log Out

SEARCH

Build Portfolio

Browse Programs

Service: Active Inactive

Army Navy Air Force

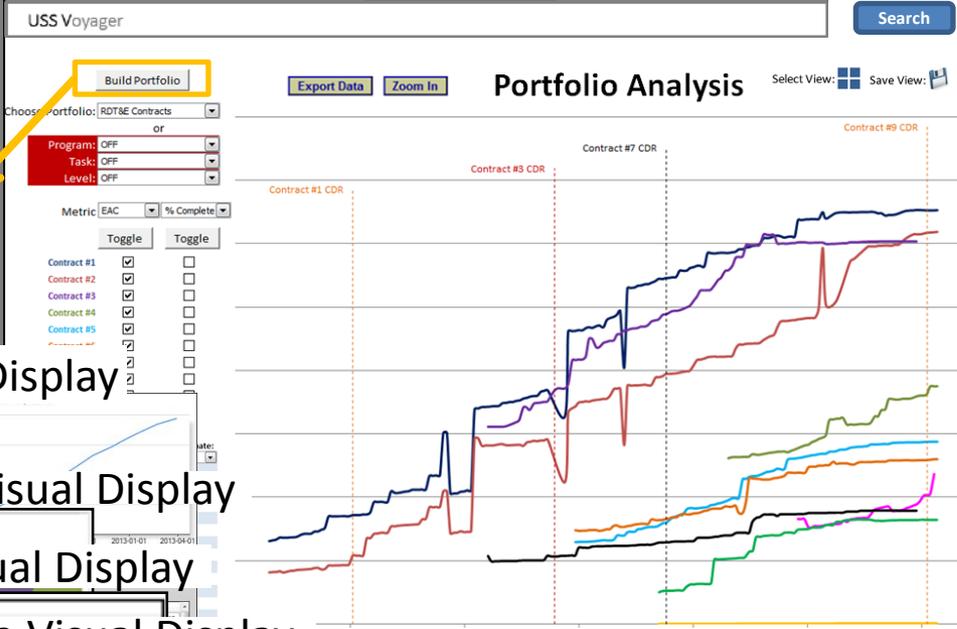
JCA: Net Centric Battlespace Logistics Protection Force Support Force Application

Commodity: Ground Combat Satellite Helicopter Submarine Air Transport Transport Vehicle Aircraft Fighter Aircraft Bomber Aircraft CA Electronic Warfare

Cost Growth: Range: +/- %

% Expanded: Range: +/- %

Total Budget Size: Range: +/- %



USS Voyager

Program View in DAMIR

RDT&E: \$14,268M

Procurement: \$7,628M

Units: 2

Milestones

Milestone	APB Obj.	APB Thres.	Current
Concept Dem.	Jul. 2012	Dec. 2012	Apr. 2013
MS II/B	Feb. 2014	May 2013	May 2013

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Bulk Download

Download All CSDR Data

Download All EVM Data

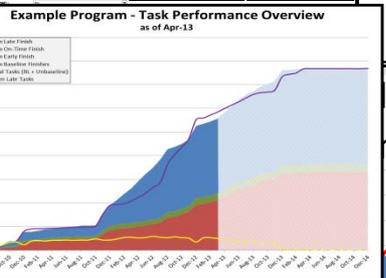
Continually expanding set of widget capabilities

CPR Visual Display

Program-level Visual Display

CCDR Visual Display

Software Visual Display



IMS Visual Display

Portfolio Analysis

Status

Value Change to Baseline: PM SAC

Performance Over Time

CADE Community

4 Analysts have been assigned to this program.

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- KHazel posted a link.
- BDopkeen posted a note.
- Elofgren shared an Excel Document.

CCRL Search

Open CCRL website in a new tab

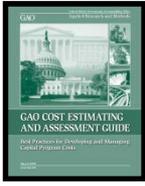
The Collaborative Cost Research Library is an online document library that contains over 16,000 cost research files contributed by the services and contractors. Search among these documents here.

External Links

- Defense Resource Center (DCARC)
- Data Warehouse (DAMIW)

CERs

$$y = ax^b$$



Search for a program among official language and the law.



UNCLASSIFIED

VATs



CADE Vision of the Future: Total Analyst Access

OSD CAPE

Seamless integration of authoritative data sources

CPR, IMS, CCDD and SRDR VATs



Vision of Future Capability

Contractor Compliance Report Card

On Time Scores *	
Submitted on Time	Green
Submitted Late	Yellow
Rejected - not re-submitted	Red
Submission in Submitting	Light Green
Expected this Period ****	Light Blue
Missing	Dark Red
Not Required this period	Light Yellow
Not required on this task	Light Green

Data Availability **EVM - Task 1**

	First Report	Latest Report	# of Reports		
4/18/2006	1/31/2014	78			
Sep-14	Oct-14	Nov-14	Dec-14	Jan-14	Feb-14
CPR					
*IPMR Cost	Green	Red	Green	Green	Green
*History	Green	Green	Green	Green	Green
Formatted Cost	Green	Green	Green	Green	Green

Knowledge Portal DCARC CAPE

CADE Total Access

USS Voyager

Portfolio Analysis

Contract #3 CDR, Contract #4 CDR, Contract #5 CDR, Contract #6 CDR, Contract #7 CDR, Contract #8 CDR, Contract #9 CDR

Metric: SAC, % Complete

Build Portfolio

Export Data, Zoom In, Save View

USS Voyager Program View in DAMR
RDTR E: \$14,268M
Procurement: \$7,628M
Units: 2

Milestones
Program Milestones from DAMR
Milestone: APB Obj, APB Thres, Current
Concept Dem... Jul. 2012, Dec. 2012, Apr. 2013
MSI/B Feb. 2014, May 2013, May 2013

Key Program Events
Key Events list maintained by Community
Mar. 2012 - IM Issues LA ops
Oct. 2012 - Dev. APB #3
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Open CCRL website in a new tab
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External Links
Defense Data Warehouse
Resource Center (DCARC)

Bulk Download

Download All CSDR Data

Download All EVM Data

Continually expanding set of widget capabilities

CPR Visual Display

Program-level Visual Display

CCDD Visual Display

Software Visual Display

IMS Visual Display

Example Program - Task Performance Overview as of April 13

Portfolio Analysis

Status

Value Change to Baseline PM SAC

Performance Over Time

Search for a program among official language and the law.

CERS

$y = ax^b$

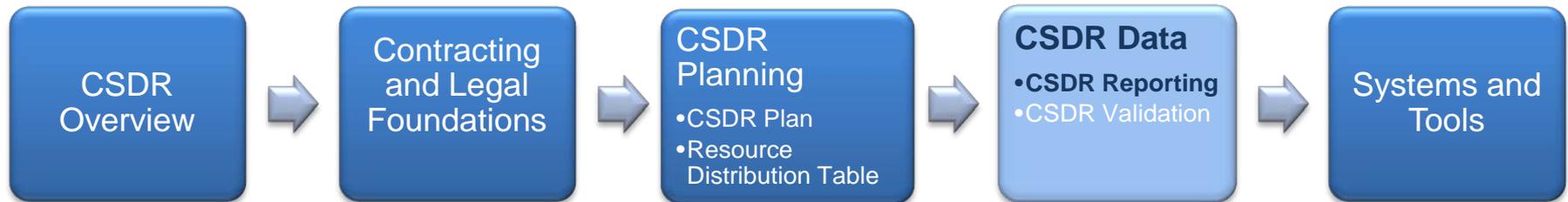


VATS



CSDR Data: CSDR Reporting

OSD CAPE





CSDR Reporting

OSD CAPE

What types of reports are available through DCARC?



Contractor Cost Data Report

- Contract Data Reporting Structure Dictionary
- Cost Data Summary Report
- Functional Cost Hour Report
- Progress Curve Report
- Contractor Business Data Report
- Contractor Sustainment Report

Software Resource Data Report

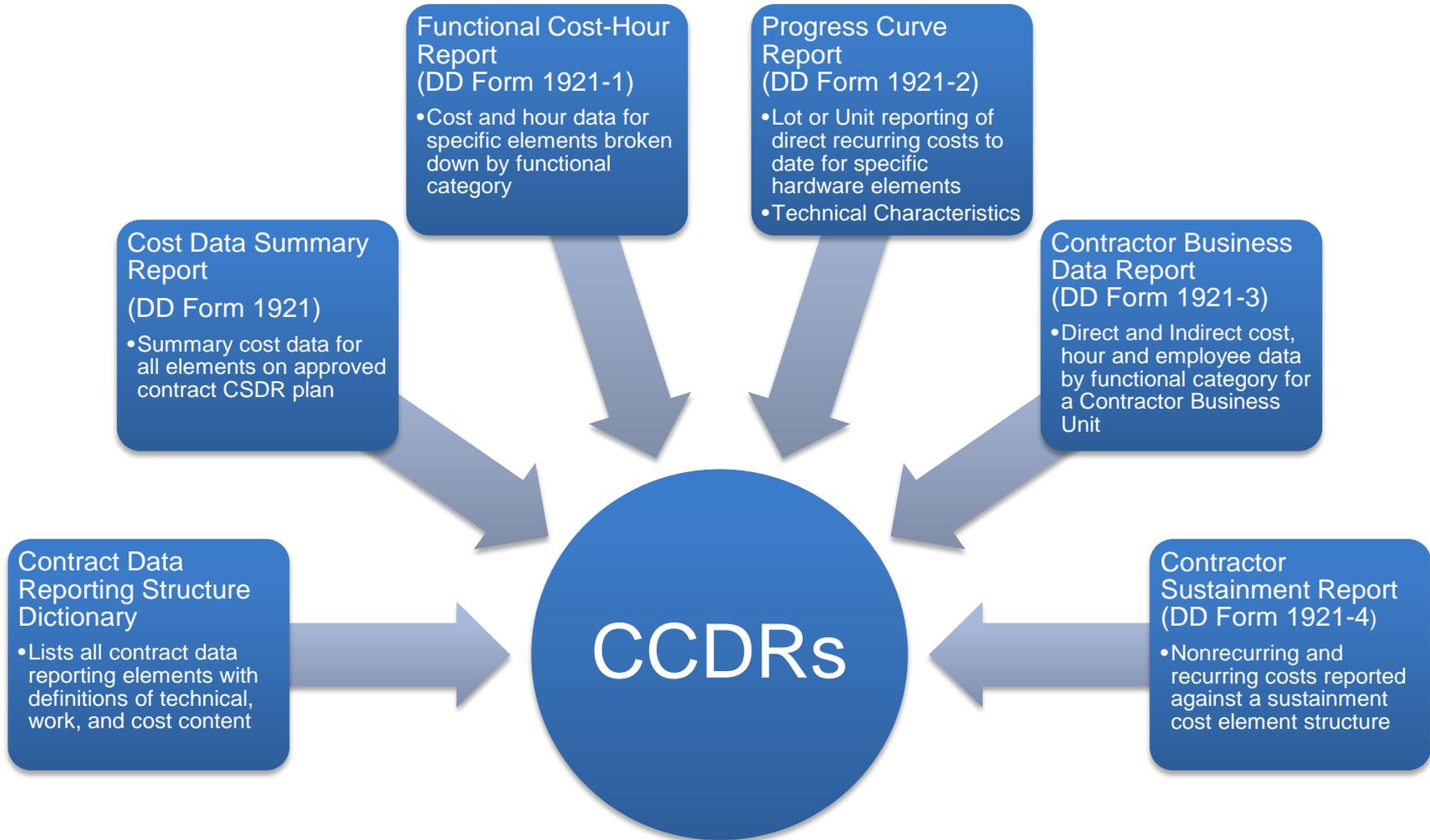
- Initial Developer Report
- Final Developer Report

Cost and Software Data Report



CCDR Reporting

OSD CAPE





SRDR Reporting

OSD CAPE

- **Software Resource Data Reports (SRDRs)**
 - Lists software size, effort, activities and schedule over the project life-cycle
 - Data reported is further explained in a data dictionary that is required with the submission
 - Initial Developer Report: Due at the beginning of project increment (estimates)
Current DID: DI-MGMT-81739B
 - Final Developer Report: Due at the completion of project increment (actuals)
Current DID: DI-MGMT-81740A





Data Item Descriptions (DIDs)

OSD CAPE

What are the instructions for each of the reports?

- Data Item Descriptions (DIDs) provide detailed instructions on the content, format, and use of CSDRs
- Can be found on the DCARC website at the following link:
<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>
- The correct DID version for a report can be found in the contract CDRLs

DIDs should always be used when creating Cost and Software Data Reports

Contract Data Reporting Structure Dictionary

OSD CAPE

- Shall be reflected in an electronic report that consists of two parts:
 - Contract Data Reporting Structure Index: Lists all data reporting elements found on the approved contract CSDR plan
 - Contract Data Reporting Structure Dictionary: Provides definitions unique to the contractor's effort that describe technical, cost, and work content for each contract data reporting structure element

Contract Data
Reporting Structure
Index

Contract Data
Reporting Structure
Dictionary

Contract Data Reporting Structure Dictionary

OSD CAPE

- The Contract Data Reporting Structure Dictionary is a living document that is developed and maintained by the contractor
- Key Characteristics
 - Lists and uniquely defines all elements from the CSDR plan
 - Revised throughout the program to reflect all statement of work changes
 - Submitted no more frequently than cost report submissions
 - There is no required format, however the example provided in the DID is preferred
 - Current Dictionary DID: DI-MGMT-81334D



Contract Data Reporting Structure Index Example

→ Metadata

Contract Work Breakdown Structure Index		Program: Vector Surface to Air Interceptor		RFP No: XXXX	Contract Plan No.: A-10-X-C1	
				Contract No: DAAE07-XX-E-0001	Date: 9/26/2012	
				Point of Contact: Erin Bell (310) 555-9461 ebell@company.com		
CWBS Code	CWBS ELEMENT LEVEL					CWBS ELEMENT NAME
	1	2	3	4	5	
1.0	X					Vector Surface to Air Interceptor
1.1		X				Air Vehicle
1.1.1			X			Airframe
1.1.2			X			Propulsion Subsystem
1.1.3			X			Power and Distribution
1.1.4			X			Guidance
1.1.4.1				X		Guidance Integration, Assembly, Test and Checkout
1.1.4.2				X		Dome Assembly
1.1.4.3				X		Seeker Assemblies
1.1.4.4				X		Guidance Software Release
1.1.4.5				X		Other Guidance Subsystems
1.1.5			X			Navigation
1.1.6			X			Controls
1.1.7			X			Communications
1.1.8			X			Payload
1.1.9			X			Reentry System
1.1.10			X			Post Boost System
1.1.11			X			Ordnance Initiation Set
1.1.12			X			On Board Test Equipment
1.1.13			X			On Board Training Equipment
1.1.14			X			Auxiliary Equipment
1.1.15			X			Air Vehicle Software Release
1.1.16			X			Air Vehicle Integration, Assembly, Test and Checkout
1.2		X				Encasement Device
1.3		X				Command and Launch
1.3.1			X			Command and Launch Integration, Assembly, Test and Checkout
1.3.2			X			Surveillance, Identification and Tracking Sensors
1.3.3			X			Launch and Guidance Control
1.3.4			X			Communications

Element Level

Element Code

Element Names

Element Code, Level, and Name must correspond exactly to Contract Data Reporting Structure on approved contract CSDR plan

Contract Data Reporting Structure Dictionary Example



Metadata

Element Names

Element Codes

Contract Work Breakdown Structure Dictionary		Program: Vector Surface to Air Interceptor	RFP No: XXXXX	Contract Plan No.: A-10-X-C1
			Contract No: DAAE07-XX-E-0001	Date: 9/26/2012
			Point of Contact: Erin Bell, (310) 555-9461, ebell@company.com	
CWBS ELEMENT NAME		CWBS DEFINITION		
1.0	Vector Surface to Air Interceptor	<p>This WBS element includes the cost of the Vector missile All Up Round (AUR) in addition to the cost of the common WBS elements. The Vector missile is an Army Surface-to-Air interceptor missile providing 360 degree coverage for the air defense mission of forward deployed forces. It is a Single-stage, short-range, low to high-altitude theater missile defense system that utilizes advanced guidance and control technologies including an advanced active RF seeker to extend the range of engagement beyond current and projected threats. This WBS element reports the total development or production cost, whichever is applicable to the instant contract, of the All Up Round (AUR) through the cost for the common WBS elements. WBS elements 1.1 Air Vehicle and 1.2 Command and Launch are the two child WBS elements that capture the cost of the product, while WBS elements 1.3 through 1.1.1 capture the cost of the "common elements".</p>		
1.1	Air Vehicle	<p>This element refers to the means for delivering the destructive effect to the target, including the capability to generate or receive intelligence to navigate and penetrate to the target area and to detonate the warhead. This element includes the design, development, and production of complete units (prototype and operationally configured units, which satisfy the requirement of their applicable specifications) regardless of their use. This WBS element has eleven children WBS elements. The government CWIPT has required, through the use of a CA-approved Plan for the Vector Missile, that WBS element 1.1.6 Guidance and Control will contain two child WBS elements, each one containing a low or levels of WBS indenture in order to capture the cost of the specific cost driving elements within the G&C element.</p>		
1.1.1	Airframe	<p>The air frame consists of a three-piece composite shell, internal metallic and composite bulkheads. The upper portion of the shell appears similar to an upside-down canoe and is constructed of sandwich composite panels stiffened with foam cores. Two covers close out the bottom of the vehicle and are constructed similarly to the upper shell. Attached to the forward cover are the window, and IR Seeker. This cover also covers the wing carry-through and structurally joins with the inlet duct. The aft cover covers the propulsion bay. Bulkheads consist of an avionics bulkhead, a superframe assembly and an engine/tail frame. The bulkheads provide body stiffness. The avionics bulkhead is made of carbon/epoxy composite materials, while the superframe and engine tail frames are constructed from metallic materials.</p>		
1.1.2	Propulsion Subsystem	<p>The propulsion system incorporates the X-5231 engine. The engine is started by firing the initiator by command by the Missile Control Unit. The initiator is connected to the engine start cartridge and the igniter cartridge. The start cartridge produces high pressure gasses which impinge on a turbine, thereby spinning the engine up to starting speed.</p>		

Technical, Work, and Cost Content Definitions

The logo for CAPE (Contract Data Reporting Structure) features a stylized globe with various military aircraft and ships orbiting it, with the word 'CAPE' in large, bold, yellow letters at the bottom.

Contract Data Reporting Structure Dictionary Definitions

OSD CAPE

- Definitions must provide complete descriptions of technical, cost, and work content for each element
 - Technical definitions must specify all hardware and software equipment associated with each element and identify what the item is, what it does within the system, and how it is physically defined
 - Cost definitions must include explanations of the recurring vs. nonrecurring efforts and characterization by functional category
 - Work definitions must describe the activities performed, processes used, and if work was performed by the reporting contractor or a subcontractor/supplier

The Dictionary is essential to understanding how contractors report costs on CCDRs



CCDR Data Comparison

OSD CAPE

DD Form 1921

All elements reported

Nonrecurring and recurring actual costs incurred and estimates at completion

Contract Totals

G&A, Undistributed Budget, Management Reserve, Facilities Capital Cost of Money, and Profit/Fee

Number of units for all hardware elements

DD Form 1921-1

Select elements reported

Nonrecurring and recurring actual costs incurred and estimates at completion

Detailed breakout of all resource data: labor, material, and overhead dollars; labor hours

Reporting by all functions: Engineering, Tooling, Quality Control, Manufacturing, and Materials

DD Form 1921-2

Select hardware elements reported by unit or lot

Technical Characteristics

Direct recurring actual costs incurred

Detailed breakout of material and direct labor costs & hours

Reporting by all functions: Engineering, Tooling, Quality Control, Manufacturing, and Materials

Cost Data Summary Report (DD Form 1921)

OSD CAPE

- Key Characteristics

- Contract level report
- Lists all elements from the CSDR plan
- Provides:
 - To date and at completion nonrecurring and recurring cost data
 - G&A, UB, MR, FCCM and Profit/Fee
 - To date and at completion number of units for all applicable hardware elements
- Initial, interim, and final submissions due at pre-determined intervals according to events on approved plan
- The DD Form 1921 is a standard form that cannot be altered by the contractor:
[\(<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>\)](http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs)
- The 1921 report must be submitted as a DCARC approved XML file
- cPet can convert an Excel DD Form 1921 to the XML schema, or DCARC approved XML schemas are available:
[\(<http://dcarc.cape.osd.mil/CSDR/cPet.aspx>\)](http://dcarc.cape.osd.mil/CSDR/cPet.aspx)
- Current 1921 DID: DI-FNCL-81565C



Cost Data Summary Report (DD Form 1921)

UNCLASSIFIED

OSD CAPE

SECURITY CLASSIFICATION Unclassified

COST DATA SUMMARY REPORT

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

1. MAJOR PROGRAM a. NAME: _____

b. PHASE MILESTONE: Pre-A B C-LRP C-FRP O&S

2. PRIME MISSION PRODUCT _____

3. REPORTING ORGANIZATION TYPE PRIME / ASSOCIATE CONTRACTOR DIRECT-REPORTING SUBCONTRACTOR GOVERNMENT

4. NAME/ADDRESS (Include ZIP Code) a. PERFORMING ORGANIZATION _____ b. DIVISION _____

5. APPROVED PLAN NUMBER _____

6. CUSTOMER (Direct-reporting subcontractor use only) _____

7. CONTRACT TYPE _____

8. CONTRACT PRICE _____

9. CONTRACT CEILING _____

10. TYPE ACTION a. CONTRACT NO.: _____ b. LATEST MODIFICATION: _____

c. SOLICITATION NO.: _____ d. NAME: _____

e. TASK ORDER/DELIVERY ORDER/LOT NO.: _____

11. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): _____ b. END DATE (YYYYMMDD): _____

12. APPROPRIATION RDT&E PROCUREMENT O&M

13. REPORT CYCLE INITIAL INTERIM FINAL

14. SUBMISSION NUMBER _____

15. RESUBMISSION NUMBER _____

16. REPORT AS OF (YYYYMMDD) _____

17. NAME (Last, First, Middle Initial) _____

18. DEPARTMENT _____

19. TELEPHONE NUMBER (Include Area Code) _____

20. E-MAIL ADDRESS _____

21. DATE PREPARED (YYYYMMDD) _____

WBS ELEMENT CODE A	WBS REPORTING ELEMENTS B	NUMBER OF UNITS TO DATE C	COSTS INCURRED TO DATE (thousands of U.S. Dollars)			NUMBER OF UNITS AT COMPLETION G	COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars)		
			NONRECURRING D	RECURRING E	TOTAL F		NONRECURRING H	RECURRING I	TOTAL J

22. REMARKS

DD FORM 1921, 20110518 PREVIOUS EDITION IS OBSOLETE. SECURITY CLASSIFICATION Unclassified

Metadata

(Blocks 1 -21)

At Completion:

Number of Units

(Block G) and

Costs Incurred

(Blocks H-J)

Data Reporting Structure

(Blocks A and B)

Remarks

(Block 22)

To Date:

Number of Units (Block C) and Costs Incurred

(Blocks D-F)

Functional Cost-Hour Report (DD Form 1921-1)

OSD CAPE

- Key Characteristics:
 - Submitted for specific elements per the CSDR plan
 - Provides:
 - To date and at completion nonrecurring and recurring cost and hours
 - Breakout of data into functional labor categories
 - Breakout of data into direct labor hours, direct labor dollars, overhead, and material dollars
 - Price of direct-reporting subcontractors
 - Initial, interim, and final submissions due at pre-determined intervals from the approved plan
 - The DD Form 1921-1 is a standard form that cannot be altered by the contractor:
(<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>)
 - The 1921-1 reports must be submitted as a DCARC approved XML file
 - cPet can convert an Excel DD Form 1921-1 to the XML schema, or DCARC approved XML schemas are available:
(<http://dcarc.cape.osd.mil/CSDR/cPet.aspx>)
 - Current 1921-1 DID: DI-FNCL-81566C



Functional Cost-Hour Report (DD Form 1921-1)

UNCLASSIFIED

OSD CAPE

SECURITY CLASSIFICATION		Unclassified						
FUNCTIONAL COST-HOUR REPORT			Form Approved OMB No. 0704-0188					
The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.								
1. MAJOR PROGRAM a. NAME:		2. PRIME MISSION PRODUCT						
b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-FRP <input type="checkbox"/> A <input type="checkbox"/> C-LRP <input type="checkbox"/> O&S		3. REPORTING ORGANIZATION TYPE <input type="checkbox"/> PRIME / ASSOCIATE CONTRACTOR <input type="checkbox"/> DIRECT-REPORTING SUBCONTRACTOR <input type="checkbox"/> GOVERNMENT						
4. NAME/ADDRESS (Include Zip Code) a. PERFORMING ORGANIZATION		b. DIVISION						
5. CUSTOMER (Direct-Reporting Subcontractor Use Only)		7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION: c. SOLICITATION NO.: d. NAME: e. TASK ORDER/DELIVERY ORDER/LOT NO.:						
3. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):		9. REPORT CYCLE <input type="checkbox"/> INITIAL <input type="checkbox"/> INTERM <input type="checkbox"/> FINAL						
10. SUBMISSION NUMBER		11. RESUBMISSION NUMBER						
12. REPORT AS OF (YYYYMMDD)								
13. NAME (Last, First, Middle Initial)		14. DEPARTMENT						
15. TELEPHONE NO. (Include Area Code)		16. EMAIL ADDRESS						
17. DATE PREPARED (YYYYMMDD)								
18. WBS ELEMENT CODE		19. WBS REPORTING ELEMENT						
20. NUMBER OF UNITS a. TO DATE b. AT COMPLETION		21. APPROPRIATION <input type="checkbox"/> RDT&E <input type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M						
FUNCTIONAL DATA ELEMENTS			COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours)			COSTS AND HOURS INCURRED AT COMPLETION (thousands of U.S. Dollars or thousands of hours)		
			A. NONRECURRING	B. RECURRING	C. TOTAL	D. NONRECURRING	E. RECURRING	F. TOTAL
ENGINEERING								
(1) DIRECT ENGINEERING LABOR HOURS								
(2) DIRECT ENGINEERING LABOR DOLLARS								
(3) ENGINEERING OVERHEAD DOLLARS								
(4) TOTAL ENGINEERING DOLLARS								
MANUFACTURING OPERATIONS								
(5) DIRECT TOOLING LABOR HOURS								
(6) DIRECT TOOLING LABOR DOLLARS								
(7) DIRECT TOOLING & EQUIPMENT DOLLARS								
(8) DIRECT QUALITY CONTROL LABOR HOURS								
(9) DIRECT QUALITY CONTROL LABOR DOLLARS								
(10) DIRECT MANUFACTURING LABOR HOURS								
(11) DIRECT MANUFACTURING LABOR DOLLARS								
(12) MANUFACTURING OPERATIONS OVERHEAD DOLLARS (Including Tooling and Quality)								
(13) TOTAL MANUFACTURING OPERATIONS DOLLARS (Sum of rows 6, 7, 9, 11, and 12)								
MATERIALS								
(14) RAW MATERIAL DOLLARS								
(15) PURCHASED PARTS DOLLARS								
(16) PURCHASED EQUIPMENT DOLLARS								
(17) MATERIAL HANDLING OVERHEAD DOLLARS								
(18) TOTAL DIRECT-REPORTING SUBCONTRACTOR DOLLARS								
(19) TOTAL MATERIAL DOLLARS								
OTHER COSTS								
(20) OTHER COSTS NOT SHOWN ELSEWHERE (Specify in Remarks)								
SUMMARY								
(21) TOTAL COST (Direct and Overhead)								
22. REMARKS								
DD FORM 1921-1, 20110518			SECURITY CLASSIFICATION			Unclassified		

Metadata
(Blocks 1 – 19, 21)

Number of Units
-to Date
-at Completion
(Block 20)

Remarks
(Block 22)

Costs and Hours Incurred to Date (Blocks A - C)

Costs and Hours Incurred at Completion (Blocks D - F)

UNCLASSIFIED



1921 and 1921-1 Relationship

OSD CAPE

SECURITY CLASSIFICATION Unclassified		COST DATA SUMMARY REPORT		Form Approved OMB No. 0704-0188
The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.				
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.				
1. MAJOR PROGRAM a. NAME: b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-LRP <input type="checkbox"/> C-FRP <input type="checkbox"/> O&S		2. PRIME MISSION PRODUCT		3. REPORTING ORGANIZATION TYPE <input type="checkbox"/> PRIME / ASSOCIATE CONTRACTOR <input type="checkbox"/> DIRECT-REPORTING SUBCONTRACTOR <input type="checkbox"/> GOVERNMENT
4. NAME/ADDRESS (Include Zip Code) a. PERFORMING ORGANIZATION			b. DIVISION	
SECURITY CLASSIFICATION Unclassified		5. APPROVED PLAN NUMBER		

SECURITY CLASSIFICATION Unclassified		FUNCTIONAL COST-HOUR REPORT		Form Approved OMB No. 0704-0188
The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.				
1. MAJOR PROGRAM a. NAME: b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-LRP <input type="checkbox"/> C-FRP <input type="checkbox"/> O&S		2. PRIME MISSION PRODUCT		3. REPORTING ORGANIZATION TYPE <input type="checkbox"/> PRIME / ASSOCIATE CONTRACTOR <input type="checkbox"/> DIRECT-REPORTING SUBCONTRACTOR <input type="checkbox"/> GOVERNMENT
4. NAME/ADDRESS (Include Zip Code) a. PERFORMING ORGANIZATION			b. DIVISION	
SECURITY CLASSIFICATION Unclassified		5. APPROVED PLAN NUMBER		
6. CUSTOMER (Direct-Reporting Subcontractor Use Only)		7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION:		c. SOLICITATION NO.: d. NAME:
8. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):		9. REPORT CYCLE <input type="checkbox"/> INITIAL <input type="checkbox"/> INTERM <input type="checkbox"/> FINAL		10. SUBMISSION NUMBER
13. NAME (Last, First, Middle Initial)		14. DEPARTMENT		15. TELEPHONE NO. (Include Area Code)
18. WBS ELEMENT CODE		19. WBS REPORTING ELEMENT		20. NUMBER OF UNITS a. TO DATE b. AT COMPLETION
11. RESUBMISSION NUMBER		12. REPORT AS OF (YYYYMMDD)		16. EMAIL ADDRESS
17. DATE PREPARED (YYYYMMDD)		21. APPROPRIATION <input type="checkbox"/> RDT&E <input type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M		
FUNCTIONAL DATA ELEMENTS		COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours)		COSTS AND HOURS INCURRED AT COMPLETION (thousands of U.S. Dollars or thousands of hours)
		A. NONRECURRING		B. RECURRING
		C. TOTAL		D. NONRECURRING
				E. RECURRING
				F. TOTAL
ENGINEERING				
(1) DIRECT ENGINEERING LABOR HOURS				
(2) DIRECT ENGINEERING LABOR DOLLARS				
(3) ENGINEERING OVERHEAD DOLLARS				
(4) TOTAL ENGINEERING DOLLARS				
e. TASK ORDER/DELIVERY ORDER/LOT NO.:				
15. RESUBMISSION NUMBER		16. REPORT AS OF (YYYYMMDD)		
20. EMAIL ADDRESS		21. DATE PREPARED (YYYYMMDD)		
NUMBER OF UNITS AT COMPLETION G		COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars)		TOTAL J
		NONRECURRING H		RECURRING I
SECURITY CLASSIFICATION Unclassified				

•Number of units to date and at completion on the 1921-1 must match number of units reported on the 1921 report

•Total costs in Line 21 of the 1921-1 report must match costs reported on the 1921 report



Functional Data Element Examples

OSD CAPE

Functional Data Element		Cost and Hours	
		Nonrecurring	Recurring
Engineering		<ul style="list-style-type: none"> • Study, analysis, design • Preparation of specifications, drawings, parts lists, and wiring diagrams • Determination and specification of requirements for reliability and maintainability 	<ul style="list-style-type: none"> • Sustaining engineering • Maintenance and updating of drawings and data • Continuous support of the fabrication, assembly, and test • Continuous support during delivery of contract end items
	Tooling	<ul style="list-style-type: none"> • Includes jigs, dies, fixtures, molds, patterns, and special gauges replacement of basic tooling • Sometimes called Special Tools - their use is limited to the needs of the customer 	<ul style="list-style-type: none"> • Sustaining tooling that involves the maintenance, repair, modification, and/or restoration of a tool to its original condition
Manufacturing Operations	Quality Control	<ul style="list-style-type: none"> • Planning of inspection methods 	<ul style="list-style-type: none"> • Check, physically inspect, measure, and test the product
	Manufacturing	<ul style="list-style-type: none"> • Initial setup and design of manufacturing environment and processes, preproduction planning 	<ul style="list-style-type: none"> • Fabrication, assembly, and functional testing of a product or end item • Convert a raw material into finished items
	Raw Materials	<ul style="list-style-type: none"> • Crude, semi-fabricated, or partially processed items not been made into a definite functional item (e.g., castings, forgings, sheet metal) 	
Materials	Purchased Parts	<ul style="list-style-type: none"> • Discrete components in an assembly that are low cost and uncomplex (e.g., fasteners, clips, clamps, nuts, bolts, washers, plumbing and electrical fittings and fixtures) 	
	Purchased Equipment	<ul style="list-style-type: none"> • Items assembled and incorporated with other components to make a finished product (e.g., radios, radar systems, electrical subassemblies) 	
	Direct Reporting Subcontractor	<ul style="list-style-type: none"> • Prices associated with subcontractors that submit CSDRs to the DCARC 	
Other Costs		<ul style="list-style-type: none"> • Other direct costs, security, royalty, license fees, transportation, preservation, packaging, and applicable Federal excise tax 	



Progress Curve Report (DD Form 1921-2)

OSD CAPE

- Key Characteristics:
 - Detailed resource data for select hardware reporting elements
 - Provides:
 - Direct recurring costs and hours to date, exclusive of overhead
 - Breakout of costs and hours by unit or lot
 - Breakout of costs and hours into functional data categories
 - Key characteristics (e.g., weight, speed, power) for each unit/lot
 - Used for modeling learning curves and projecting future units
 - Initial, interim, and final submissions due at pre-determined intervals from the approved plan
 - The DD Form 1921-2 can be altered by the contractor to accommodate additional characteristics and units/lots:
(<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>)
 - The 1921-2 reports must be submitted as a DCARC approved XML file
 - cPet can convert an Excel DD Form 1921-2 to the XML schema, or DCARC approved XML schemas are available:
(<http://dcarc.cape.osd.mil/CSDR/cPet.aspx>)
 - Current 1921-2 DID: DI-FNCL-81567C



Progress Curve Report (DD Form 1921-2)

OSD CAPE

Metadata
(Blocks 1 – 21)

SECURITY CLASSIFICATION: Unclassified

PROGRESS CURVE REPORT

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

1. MAJOR PROGRAM a. NAME: b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> A <input type="checkbox"/> C-LRIP		2. PRIME MISSION PRODUCT <input type="checkbox"/> C-FRP <input type="checkbox"/> O&S	3. REPORTING ORGANIZATION TYPE <input type="checkbox"/> PRIME / ASSOCIATE CONTRACTOR <input type="checkbox"/> DIRECT-REPORTING SUBCONTRACTOR <input type="checkbox"/> GOVERNMENT		4. NAME/ADDRESS (Include ZIP Code) a. PERFORMING ORGANIZATION b. DIVISION	
5. APPROVED PLAN NUMBER		6. CUSTOMER (Direct-Reporting Subcontractor Use Only)		7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION		
8. PERIOD OF PERFORMANCE a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):		9. REPORT CYCLE <input type="checkbox"/> INITIAL <input type="checkbox"/> INTERIM <input type="checkbox"/> FINAL		10. SUBMISSION NUMBER		
3. NAME (Last, First, Middle Initial)		14. DEPARTMENT		15. TELEPHONE NO. (Include Area Code)		
11. RESUBMISSION NUMBER		12. REPORT AS OF (YYYYMMDD)		16. E-MAIL ADDRESS		
17. DATE PREPARED (YYYYMMDD)		18. WBS ELEMENT CODE		19. WBS REPORTING ELEMENT		
20. UNITS/LOTS COMPLETED <input type="checkbox"/> UNIT TOTAL <input type="checkbox"/> LOT TOTAL		21. APPROPRIATION <input type="checkbox"/> RDT&E <input type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M				

Completed
Units/Lots
(Blocks A1-An)

DATA ELEMENTS	A. COMPLETED UNITS/LOTS (thousands of U.S. Dollars or thousands of hours)				B. WORK IN PROCESS (WIP) (thousands of U.S. Dollars or thousands of hours)	C. TOTAL DIRECT COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours)
	A1	A2	A3	A4		
(1) MODEL AND SERIES						
(2) FIRST UNIT						
(3) LAST UNIT						
(4) CONCURRENT UNITS/LOTS						
CHARACTERISTICS						
(5a) Weight						
(5b) Speed						
(5c) Power						
ENGINEERING (RECURRING ONLY)						
(6) DIRECT ENGINEERING LABOR HOURS						
(7) DIRECT ENGINEERING LABOR DOLLARS						
MANUFACTURING OPERATIONS (RECURRING ONLY)						
(8) DIRECT TOOLING LABOR HOURS						
(9) DIRECT TOOLING LABOR DOLLARS						
(10) DIRECT TOOLING & EQUIPMENT DOLLARS						
(11) DIRECT QUALITY CONTROL LABOR HOURS						
(12) DIRECT QUALITY CONTROL LABOR DOLLARS						
(13) DIRECT MANUFACTURING LABOR HOURS						
(14) DIRECT MANUFACTURING LABOR DOLLARS						
(15) TOTAL DIRECT MANUFACTURING OPERATIONS DOLLARS (Sum of rows 9, 10, 12, & 14)						
MATERIALS (RECURRING ONLY)						
(16) RAW MATERIALS DOLLARS						
(17) PURCHASED PARTS DOLLARS						
(18) PURCHASED EQUIPMENT DOLLARS						
(19) TOTAL DIRECT-REPORTING SUBCONTRACTOR DOLLARS						
(20) TOTAL DIRECT MATERIAL DOLLARS						
OTHER COSTS (RECURRING ONLY)						
(21) OTHER DIRECT COSTS NOT SHOWN ELSEWHERE (Specify in Remarks)						
SUMMARY (RECURRING ONLY)						
(22) TOTAL DIRECT COST						

**Completed Units + WIP = Total Costs Incurred to Date
(Sum of Blocks A1+ +An + Block B = Block C)**

Remarks
(Block 22)

DD FORM 1921-2, 20110518

PREVIOUS EDITION IS OBSOLETE.

SECURITY CLASSIFICATION: Unclassified

Work In Process (Block B)

Total Direct Costs and Hours
Incurred to Date (Block C)

1921-1 and 1921-2 Relationship

OSD CAPE



SECURITY CLASSIFICATION: Unclassified

FUNCTIONAL COST-HOUR REPORT

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

1. MAJOR PROGRAM a. NAME:
b. PHASE/MILESTONE
 Pre-A B C-FRP
 A C-LRP O&S

2. PRIME MISSION PRODUCT

3. REPORTING ORGANIZATION TYPE
 PRIME / ASSOCIATE CONTRACTOR DIRECT-REPORTING SUBCONTRACTOR GOVERNMENT

4. NAME/ADDRESS (Include Zip Code)
a. PERFORMING ORGANIZATION b. DIVISION

5. APPROVED PLAN NUMBER

6. CUSTOMER (Direct-Reporting Subcontractor Use Only)

7. TYPE ACTION
a. CONTRACT NO.: b. LATEST MODIFICATION: c. SOLICITATION NO.: e. TASK ORDER/DELIVERY ORDER/LOT NO.:
d. NAME:

8. PERIOD OF PERFORMANCE
a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):

9. REPORT CYCLE
 INITIAL INTERIM FINAL

10. SUBMISSION NUMBER

11. RESUBMISSION NUMBER

12. REPORT AS OF (YYYYMMDD)

13. NAME (Last, First, Middle Initial)

14. DEPARTMENT

15. TELEPHONE NO. (Include Area Code)

16. EMAIL ADDRESS

17. DATE PREPARED (YYYYMMDD)

18. WBS ELEMENT CODE

19. WBS REPORTING ELEMENT

20. NUMBER OF UNITS
a. TO DATE b. AT COMPLETION

21. APPROPRIATION
 RDT&E PROCUREMENT O&M

FUNCTIONAL DATA ELEMENTS	COSTS AND HOURS INCURRED TO DATE (thousands of U.S. Dollars or thousands of hours)			COSTS AND HOURS INCURRED AT COMPLETION (thousands of U.S. Dollars or thousands of hours)		
	A. NONRECURRING	B. RECURRING	C. TOTAL	D. NONRECURRING	E. RECURRING	F. TOTAL
ENGINEERING						
(1) DIRECT ENGINEERING LABOR HOURS						
(2) DIRECT ENGINEERING LABOR DOLLARS						
(3) ENGINEERING OVERHEAD DOLLARS						
(4) TOTAL ENGINEERING DOLLARS						
MANUFACTURING OPERATIONS						
(5) DIRECT TOOLING LABOR HOURS						
(6) DIRECT TOOLING LABOR DOLLARS						
(7) DIRECT TOOLING & EQUIPMENT DOLLARS						
(8) DIRECT QUALITY CONTROL LABOR HOURS						
(9) DIRECT QUALITY CONTROL LABOR DOLLARS						
(10) DIRECT MANUFACTURING LABOR HOURS						
(11) DIRECT MANUFACTURING LABOR DOLLARS						
(12) MANUFACTURING OPERATIONS OVERHEAD DOLLARS (Including Tooling and Quality)						
(13) TOTAL MANUFACTURING OPERATIONS DOLLARS (Sum of rows 6, 7, 9, 11, and 12)						
MATERIALS						
(14) RAW MATERIAL DOLLARS						
(15) PURCHASED PARTS DOLLARS						
(16) PURCHASED EQUIPMENT DOLLARS						
(17) MATERIAL HANDLING OVERHEAD DOLLARS						
(18) TOTAL DIRECT-REPORTING SUBCONTRACTOR DOLLARS						

SECURITY CLASSIFICATION: Unclassified

Form Approved
OMB No. 0704-0188

ing the data needed, and completing and reviewing the collection of information. Send comments to the Director, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

4. NAME/ADDRESS (Include Zip Code)
a. PERFORMING ORGANIZATION b. DIVISION

5. APPROVED PLAN NUMBER

6. CUSTOMER (Direct-Reporting Subcontractor Use Only)

7. TYPE ACTION
a. CONTRACT NO.: b. LATEST MODIFICATION: c. SOLICITATION NO.: e. TASK ORDER/DELIVERY ORDER/LOT NO.:
d. NAME:

8. PERIOD OF PERFORMANCE
a. START DATE (YYYYMMDD): b. END DATE (YYYYMMDD):

9. REPORT CYCLE
 INITIAL INTERIM FINAL

10. SUBMISSION NUMBER

11. RESUBMISSION NUMBER

12. REPORT AS OF (YYYYMMDD)

13. NAME (Last, First, Middle Initial)

14. DEPARTMENT

15. TELEPHONE NO. (Include Area Code)

16. EMAIL ADDRESS

17. DATE PREPARED (YYYYMMDD)

18. WBS ELEMENT CODE

19. WBS REPORTING ELEMENT

20. NUMBER OF UNITS
a. TO DATE b. AT COMPLETION

21. APPROPRIATION
 RDT&E PROCUREMENT O&M

B. WORK IN PROCESS (WIP)
(thousands of U.S. Dollars or thousands of hours)

C. TOTAL DIRECT COSTS AND HOURS INCURRED TO DATE
(thousands of U.S. Dollars or thousands of hours)

Direct costs and hours incurred to date from Block B of the 1921-1 report correspond to Block C of the 1921-2 report for each respective element



Contractor Business Data Report (DD Form 1921-3)

OSD CAPE

- Key Characteristics
 - Annual report designed to
 - Facilitate rate impact analysis if a Forward Pricing Rate (FPR) unit's business base changes
 - Determine appropriate indirect rates for on-going cost estimates
 - Provides:
 - Specific information on all MDAP government contracts as well as other government and commercial business per FPR unit
 - Actual direct and indirect cost data for current and prior years
 - Proposed direct and indirect cost data for future fiscal years
 - Direct labor rates for engineering and manufacturing operations
 - Total FRP Unit Revenue for current and prior years
 - The DD Form 1921-3 cannot be altered by the contractor:
(<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>)
 - The 1921-3 reports must be submitted in one Microsoft Excel workbook with separate tabs for prior, current, and future years
 - Current 1921-3 DID: DI-FNCL-81765B



DD Form 1921-3 Page One

OSD CAPE

SECURITY CLASSIFICATION _____

CONTRACTOR BUSINESS DATA REPORT

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 30 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate, Information Management Division, 1155 Defense Pentagon, Washington, DC 20301-1155 (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.**

1. CONTRACTOR NAME/ADDRESS (Include Zip Code)		2. FPR UNIT	3. IMPLEMENTING CONTRACT NUMBER	4. DATA PERIOD (X one) Prior Year _____ Current Year _____ Future Year _____	5. FISCAL YEAR (YYYY)	6. DATES IN FISCAL YEAR (YYYYMMDD) Start Date: _____ End Date: _____
7. PREPARER'S NAME (Last, First, Middle Initial)		8. DEPARTMENT	9. TELEPHONE NO. (Include Area Code)	10. EMAIL ADDRESS	11. DATE PREPARED (YYYYMMDD)	

Overhead Accumulation, Distribution, and Application

DIRECT COST BY PROGRAM					DIRECT: COST / HOURS / MANPOWER (Report dollars and hours in thousands)										
Program Name a	A/F	Contract Number b	Equivalent Units c	Buyer d	Engineering			Manufacturing Operations			Materials	Other			
					Workers e	Dollars f	Hours g	Workers h	Dollars i	Hours j	Dollars k	Workers l	Dollars m	Hours n	
1.															
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															
11. Other DoD Effort															
12. Other Government Effort															
13. Commercial Effort															
14. Total Direct Cost and Hours Base						\$0.0	0.0		\$0.0	0.0	\$0.0		\$0.0	0.0	
15. Total Direct Workers															

INDIRECT COST CATEGORY	INDIRECT: COST / HOURS / MANPOWER (Report dollars and hours in thousands)											
	Engineering			Manufacturing Operations			Materials	Other			G&A	
	Workers o	Dollars p	Hours q	Workers r	Dollars s	Hours t	Dollars u	Workers v	Dollars w	Hours x	Dollars y	Hours z
15. Indirect Labor												
16. Employee Benefits												
17. Payroll Taxes												
18. Employment												
19. Communication/Travel												
20. Production Related												
21. Facilities-Building/Land												
22. Facilities-Furniture/Equipment												
23. Administration												
24. Future Business												
25. Other Miscellaneous												
26. Credits												
27. Total Indirect Cost and Hours		\$0.0	0.0		\$0.0	0.0	\$0.0		\$0.0	0.0	\$0.0	0.0
28. Total G&A Cost and Hours											\$0.0	0.0
29. Indirect/Direct Cost Rate		0.00%			0.00%		0.00%		0.00%			
30. G&A Rate/(Direct + Indirect)											0.00%	

Metadata (Blocks 1-11)

Direct Cost by Program (Section A)

Indirect Cost Categories (Section B)



DD Form 1921-3 Page Two

OSD CAPE

SECURITY CLASSIFICATION _____

CONTRACTOR BUSINESS DATA REPORT - PAGE 2

SECTION C	PRODUCTION CAPACITY		Current Year		Method of Calculating "FPR unit % of Full Production Capacity"																
	FPR Unit % of Full Production Capacity																				
	Number of Shifts																				
SECTION D	Current Year (Report hours in thousands)																		Prior Year	Year	Year
			1st Quarter				2nd Quarter				3rd Quarter				4th Quarter				Basic Rate\$	Basic Rate\$	Basic Rate\$
	DIRECT LABOR RATES (FUNCTIONAL CATEGORIES)		Workers a	Hours b	Basic Rate\$ c	Effective Rate\$ d	Workers a	Hours b	Basic Rate\$ c	Effective Rate\$ d	Workers a	Hours b	Basic Rate\$ c	Effective Rate\$ d	Workers a	Hours b	Basic Rate\$ c	Effective Rate\$ d	Basic Rate\$ c	Basic Rate\$ c	Basic Rate\$ c
	1. Engineering - Direct Labor																				
	2. Manufacturing Operations - Direct Labor																				
	a. Tooling - Direct Labor																				
b. Quality Control - Direct Labor																					
c. Manufacturing - Direct Labor																					
SECTION E			Prior Year		Current Year																
	Total FPR Unit Revenue (Sales) (thousands of dollars)																				
SECTION F	Organizational Changes (For Each Year Reported)									Accounting Changes (For Each Year Reported)											
REMARKS																					

Facility-wide Specifics (Section C)

Direct Labor Rates (Section D)

Total Sales (Section E)

Organizational & Accounting Changes (Section F)

Remarks



Contractor Sustainment Report (DD Form 1921-4) Implementation

OSD CAPE

- Key Characteristics:
 - Contract level reporting structure mandatory for sustainment contracts
 - Provides:
 - To date and at completion nonrecurring and recurring cost data
 - Contractor Sustainment Cost Element Structure (CES) and definitions consistent with CAPE O&S Cost Estimating Guide
 - The 1921-4 reporting form will not be used on future contracts. Future data will be provided using DD Form 1921 and the sustainment cost element structure
 - A new form is being created to collect functional cost data associated with sustainment efforts



1921 Sustainment Reporting

OSD CAPE

COST DATA SUMMARY REPORT

The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Service Directorate (0704-0183). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

Form Approved OMB No. 0704-0183

1. MAJOR PROGRAM NAME:
 2. PRIME MISSION PRODUCT:
 3. REPORTING ORGANIZATION TYPE:
 4. NAME ADDRESS (include ZIP Code):
 5. APPROVED PLAN NUMBER:
 6. CUSTOMER (Direct-reporting subcontractor use only):
 7. CONTRACT TYPE:
 8. CONTRACT PRICE:
 9. CONTRACT CEILING:
 10. TYPE ACTION:
 11. PERIOD OF PERFORMANCE:
 12. APPROPRIATION:
 13. REPORT CYCLE:
 14. SUBMISSION NUMBER:
 15. RESUBMISSION NUMBER:
 16. REPORT A S OF (YYYY/M/DD):
 17. NAME (Last, First, Middle Initial):
 18. DEPARTMENT:
 19. TELEPHONE NUMBER (Include Area Code):
 20. EMAIL ADDRESS:
 21. DATE PREPARED (YYYY/M/DD):

WBS ELEMENT CODE A	WBS REPORTING ELEMENTS B	NUMBER OF UNITS TO DATE C	COSTS INCURRED TO DATE (thousands of U.S. Dollars)			NUMBER OF UNITS AT COMPLETION G	COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars)		
			NONRECURRING D	RECURRING E	TOTAL F		NONRECURRING H	RECURRING I	TOTAL J
1.0	Sustainment Effort								
1.1	Unit-Level Manpower (System Level Cost Only)								
1.1.1	Operations Manpower								
1.1.2	Unit-Level Maintenance Manpower								
1.1.3	Other Unit-Level Manpower (Specify in Remarks)								
1.2	Unit Operations (System Level Cost Only)								
1.2.1	Operating Material								
1.2.1.1	Energy (Fuel, Petroleum, Oil, And Lubricants (POL); Electricity)								
1.2.1.2	Training Munitions/Expendable Stores								
1.2.1.3	Other Operating Material (Specify in Remarks)								
1.2.2	Support Services (Including Non-Maintenance FSRs)								
1.2.3	Temporary Duty								
1.3	Maintenance								
1.3.1	Overhaul of End Items								
1.3.1.1	Scheduled Overhaul								
1.3.1.1.1	Vehicle Overhaul								
1.3.1.1.2	Propulsion Overhaul								
1.3.1.1.3	Other Overhaul								
1.3.1.2	Unscheduled Overhaul								
1.3.1.2.1	Vehicle Overhaul								
1.3.1.2.2	Propulsion Overhaul								
1.3.1.2.3	Other Overhaul								
1.3.2	Depot Level Repairables (DLR) / Repair Of Repairables (ROR)								
1.3.3	Consumables and Repair Parts								
1.3.4	Other Maintenance Services (Including FSRs) (Explain in Remarks)								
1.3.4.1	O-Level Maintenance Services								
1.3.4.2	I-Level Maintenance Services								
1.3.4.3	Depot Level Maintenance Services								
1.3.5	Packing, Handling, Shipping and Transportation								
1.4	Sustaining Support (System Level Cost Only)								
1.4.1	System Specific Training								
1.4.1.1	Operator Training								
1.4.1.2	Maintenance Training								
1.4.1.3	Other Training								
1.4.2	Support Equipment Replacement								
1.4.3	Sustaining/Systems Engineering								
1.4.3.1	Reliability and Maintainability Engineering								
1.4.3.2	Logistics Engineering (LSA Updates, Logistics Analysis)								
1.4.3.3	Supply Analysis Efforts								
1.4.3.4	Safety/Human Systems Integration Engineering								
1.4.3.5	Affordability Engineering								
1.4.3.6	Obsolescence Engineering								
1.4.3.7	Availability Management								
1.4.3.8	Product Engineering Support								
1.4.3.9	Information Assurance								
1.4.3.10	Configuration Management								
1.4.3.11	System Performance Analysis								
1.4.3.12	Supply								
1.4.3.13	Data Analysis								
1.4.3.14	Physical Security								
1.4.4	Program Management								
1.4.4.1	Contractor Logistics Support (CLS) Management								
1.4.4.2	CLS Supply Management								
1.4.4.3	Financial/Schedule Planning and Reporting								
1.4.4.4	Transition to Lead Service								
1.4.4.5	Quality Assurance (Program Level)								
1.4.4.6	Administrative Security								
1.4.4.7	Transition to Performance Based Logistics (Pbl)								
1.4.4.8	Risk Mitigation								
1.4.5	Information Systems								
1.4.5.1	Tech Refresh								
1.4.5.2	License Fees								
1.4.5.3	Maintenance								
1.4.6	Data and Technical Publications								
1.4.7	Simulator Operations								
1.4.7.1	Simulator Operations Hardware Support								
1.4.7.2	Simulator Operations Manpower								
1.4.7.3	Simulator Tech Refresh								
1.4.8	Other Sustaining Support (Specify in Remarks)								
1.5	Continuing System Improvements								
1.5.1	Hardware Modifications or Modernization								
1.5.1.1	Mod Kit Development								
1.5.1.2	Mod Kit Procurement								
1.5.1.3	Mod Kit Initial Spares								
1.5.1.4	Mod Kit Installation								
1.5.2	Software Maintenance or Modification								
1.6	Installation and Personnel Support (System Level Only)								
	Subtotal Cost								
	Reporting Contractor G&A								
	Reporting Contractor Undistributed Budget								
	Reporting Contractor Management Reserve								
	Reporting Contractor FCCM								
	Total Cost								
	Reporting Contractor Profit/Loss or Fee								
	Total Price								
22.	REMARKS								

Sustainment Cost Element Structure

Summary Elements



CSDR Reporting Summary

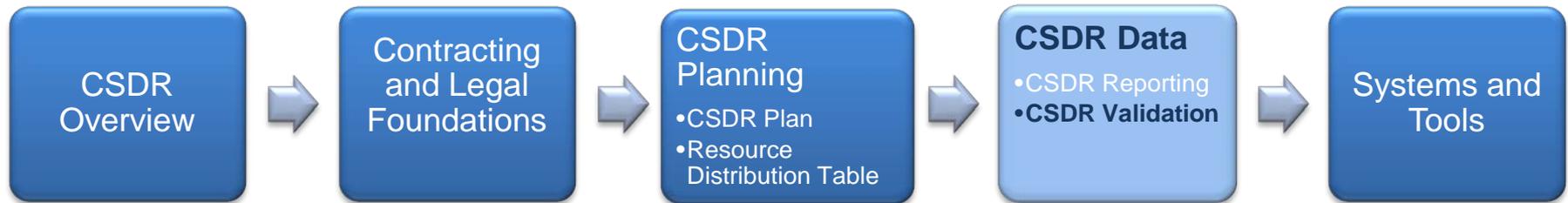
OSD CAPE

- CSDRs contain eight different report types which provide different levels of insight into hardware and software costs, effort, and technical requirements
- CSDR IPT members play a crucial role in the CSDR Process
 - CSDR planning to ensure appropriate data is requested
 - Reviewing CSDRs prior to acceptance to verify data is correct



CSDR Data: CSDR Validation

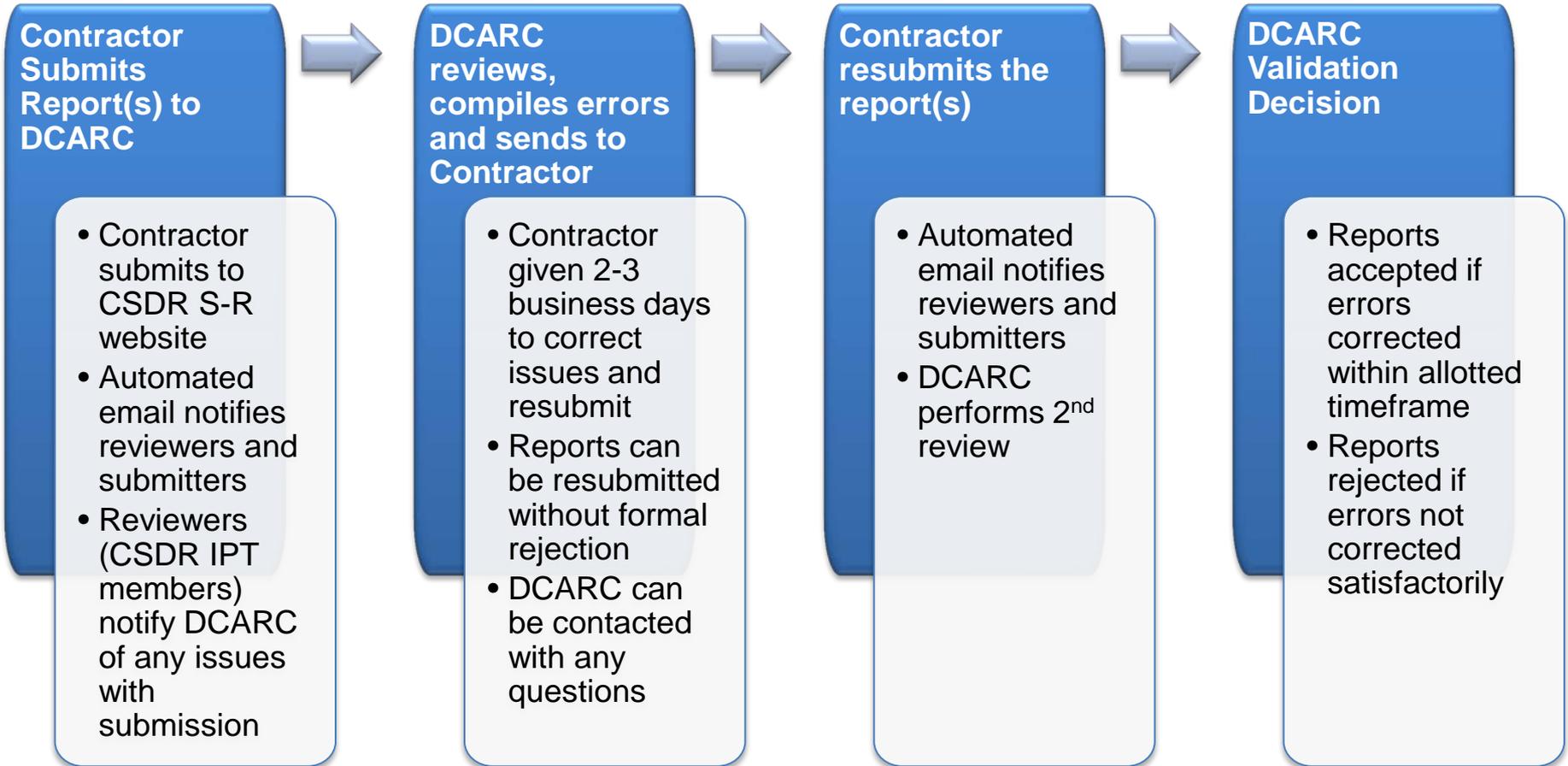
OSD CAPE





Validation Process

OSD CAPE



DCARC Validation process should be complete within 20 business days of contractor submission



Dictionary Validation Checks

OSD CAPE

- Correctly formatted index is included
- Contract data reporting structure matches the approved contract CSDR plan exactly
 - No elements from approved plan are omitted
 - No additional elements are included
- Complete, *detailed* definitions (contain technical, cost, and work content)
- Parent-level element definitions include general system-level descriptions
- Elements that are out of scope are defined as not applicable
- Elements that are in scope are accurately defined
- Elements are not defined as “reserved”



CCDR Validation Process: cPet Automated Checks

OSD CAPE

- To validate 1921, 1921-1, 1921-2, and 1921-3 reports DCARC analysts complete manual checks and use cPet (CSDR Planning and Execution Tool)
 - cPet is the tool used to perform preliminary CCDR validations
 - CCDRs are consistent with the CSDR Contract Plan
 - Numbers sum correctly
 - Checks for numerical anomalies
 - 1921, 1921-1, and 1921-2 reports contain consistent metadata, units and costs



CCDR Validation Process

Manual Checks

OSD CAPE

- All metadata is reported accurately
- Number of Units to date and at completion reported correctly for all hardware and integration, assembly, test & checkout elements with recurring costs
- Nonrecurring and recurring costs reported discretely
- Costs reported to date on annual reports increase from prior reports
- Appropriate and accurate explanations in Remarks sections for:
 - DID requirements (accounting changes since last report, Cost Accounting Standards Disclosure statements differ from cost definitions in DIDs)
 - Anomalies (to date costs > EAC, negative costs, underrun/overrun)

Attributes of a Successful Submission

OSD CAPE

All Reports

- Single file for each report type
- No arithmetical errors
- All anomalies explained in Remarks section (negative figures, To Date > At Completion, etc.)
- Units reported for hardware elements with recurring costs
- Metadata and units match among report types

1921 Report

- All elements included from plan
- Costs reported for G&A, FCCM, and Profit
- Explanation if total price overruns or underruns contract price
- Nonrecurring and recurring costs reported discretely
- Final reports are \geq 95% complete

1921-1 Report

- Total costs for each element correspond to costs on 1921 report
- Direct labor hours, dollars, and overhead reported
- Costs for functional data elements reported discretely
- Explanations for Other Costs Not Shown Elsewhere and Direct Reporting Subcontractors

1921-2 Report

- To-date, direct recurring data matches 1921-1 report
- Direct costs and hours reported
- Unit or lot reporting per CSDR plan
- Technical characteristics per CSDR plan
- Explanations for Other Direct Costs Not Shown Elsewhere and Direct Reporting Subcontractors

cPet assists in preparation of a successful submission

Program Office/CAPE/Component Cost Organization Validation Process

OSD CAPE

CSDR IPT Analysts should perform the following checks as the DCARC does not have insight into all programmatic information

Contract Data Reporting Structure Dictionaries

- Accurate cost, work and technical definitions provided per element
- Descriptions include information on who (reporting contractor or a supplier/subcontractor) is performing the effort described
- Government Furnished Equipment (GFE) items being integrated into the system are labeled as "GFE" under the appropriate data reporting elements

CCDRs

- Correct units reported for all hardware elements
- Correct "To Date" and "At Completion" total costs
- Accurate and complete explanations
- Costs reported for all elements in scope
- Product characteristics and functional breakdown validation
- Correct variant reporting
- Total contract costs reported, inclusive of all Contract Line Item Numbers (CLINs) and Delivery Orders (DOs)



Program Office/CAPE/Component Cost Organization Communication

OSD CAPE

- Feedback from CSDR IPT analysts prior to DCARC analyst's final validation decision is crucial to collecting accurate cost data
- Comments on the submissions can be provided to the DCARC through the CSDR S-R website
- Reviews should occur within five business days after submission to the CSDR S-R
- Inform DCARC if additional time is needed to review submissions

To review submissions, navigate to the DCARC homepage, select "Portal Login" and select "CSDR-SR." Choose the "My CSDR" dropdown option and select "Review Submissions"



Validation Error Report

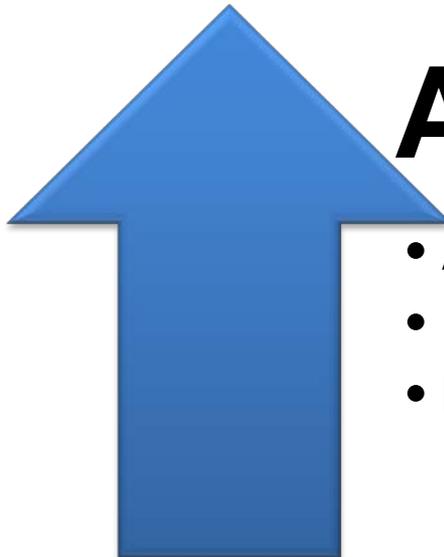
OSD CAPE

- Input from CSDR IPT analysts will be compiled into the DCARC analyst's validation error report
- The validation error report will be emailed to the contractor to correct errors and avoid a formal rejection
- All errors must be corrected before resubmission



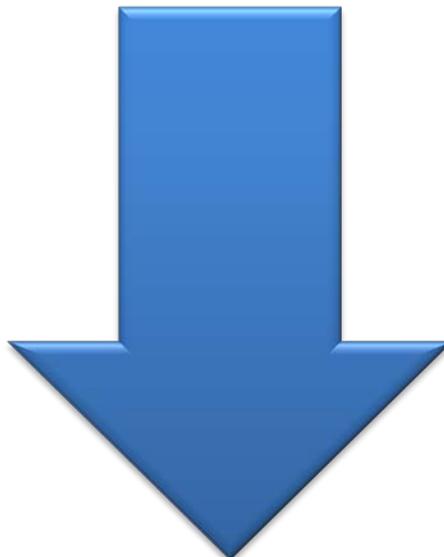
Accepted and Rejected Reports

OSD CAPE



Accepted

- Acceptance Memo distributed
- No further action required
- Reports stored in DACIMS Repository



Rejected

- Rejection Memo and Validation Error Report distributed
- Reports must be resubmitted in ~ 30 days (per Memo)
- Delayed cost data availability for government analysts
- Additional work for government and industry
- Frequent rejections included in compliance ratings
- Delayed milestone reviews and contract awards



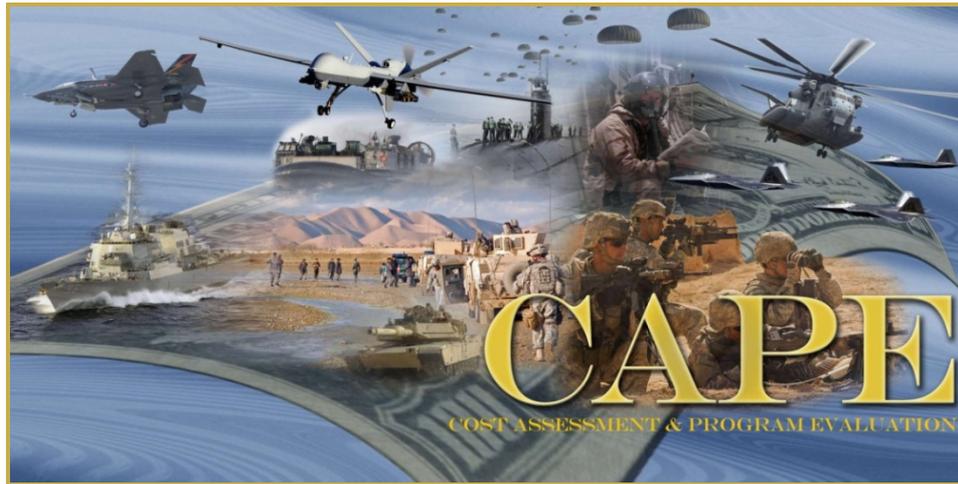
CSDR Validation Summary

OSD CAPE

- CSDRs are validated to ensure that all information reported is complete and reasonable through manual and automated checks
- Program Office/CAPE/Component Cost Organization involvement in validation of reports is crucial to receiving the anticipated data

cPet Desktop Demo

CSDR Validation





cPet Desktop for Data Providers

OSD CAPE

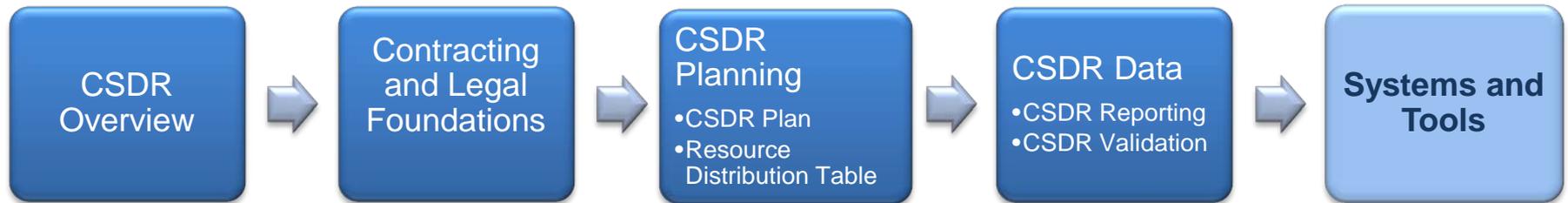
- cPet should be used by the contractor to prepare and check CCDRs for errors prior to submission
 - Generates DCARC XML files for submission from DD Form or Flat File Excel template
 - Validates 1921, 1921-1, 1921-2, and 1921-3 reports
 - Performs preliminary validations and displays errors for missing, incomplete, inconsistent and numerically inaccurate data

In addition to manual checks, all CCDRs submitted to the DCARC are validated through cPet to verify that reports do not contain errors



Systems and Tools

OSD CAPE





Systems and Tools

OSD CAPE

- DCARC has a secure online system and software application to facilitate data submission and review for data providers and users
 - **Data providers** can create, validate, and submit reports
 - **Data users** can generate CSDR plans and review data



Accessing CSDR System

OSD CAPE

- Register for a DCARC Knowledge Portal account to access the CSDR S-R



- Go to the DCARC homepage: <http://dcarc.cape.osd.mil/CSDR/Default.aspx> and select “Request Portal Access”
- User applicants must have a valid CAC or ECA Certificate prior to Knowledge Portal Registration
- Fill out profile information and request user roles
 - Data providers select “Submitter” roles
 - Data users select “Reviewer” roles

- If a Knowledge Portal account has been obtained but CSDR S-R access has not, select “Portal Login”:



- Select “Request application roles” to request the necessary roles

CSDR S-R



OSD CAPE



Knowledge Portal

DCARC
CAPE

PORTAL HOME

CSDR-SR HOME

MY CSDR

UPLOAD HOME

SEARCH

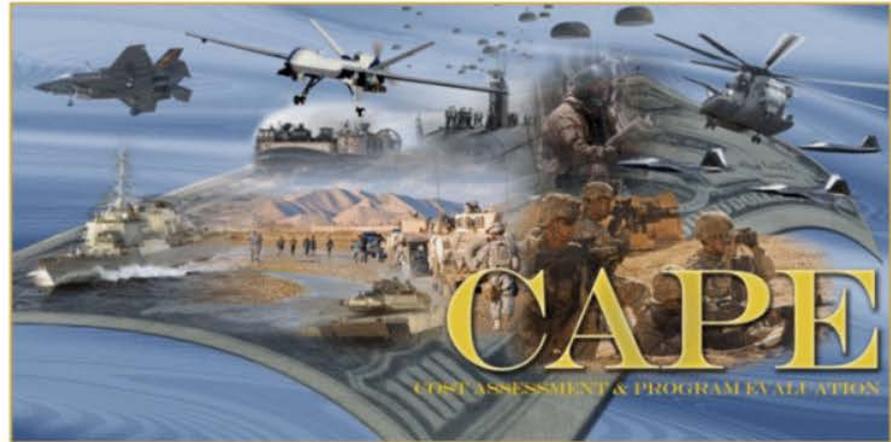
CONTACT US

Welcome to CSDR-SR

User Guides

 [Reviewer Guide](#) - Illustrates to reviewers how to request an account, review/comment on data submissions, view CSDR plans, and review future submission events.

 [Submitter Guide](#) - Illustrates to submitters how to request an account, upload documents, and view CSDR plans.



Reviewer and Submitter Guides on the CSDR S-R homepage explain processes for each role



CSDR S-R: Accessing CSDR plans

OSD CAPE

- Reviewers and Submitters can access .xml and .xls versions of the current, approved contract CSDR plans
 - On the “Upload Home” or “Review Submissions” tab, select the “Prime Contract Number” associated with the plan
 - The “Contract Detail” page containing the submission events and information associated with the plan will appear

PORTAL HOME CSDR-SR HOME MY CSDR UPLOAD HOME SEARCH CONTACT US

Upload Home
(** CSDR-SR Data Only, No EVM Data **)

Submission Events Assigned Contracts Submissions in Progress Rejected Submissions Submission History Contract Request

Submission Events

Date Range: All Program: All Programs
Submission Stage: None Contract: All

Event Name	Expected Files	Expected As Of Date	Expected Submission Date	Prime Contract Number	Task	Plan Number	Program Name
Final Lot 7 Report, 4 accounting months after mont	1921,1921-1	10/24/2009	1/22/2010	XXXXXXXX-XX-X-XXXX	CIP Lot 7-9	AF-05-D-C4-S1	Test

Contract Detail

Prog:Test Ctr#:XXXXXXXX-XX-X-XXXX
Ctr:DCARC Test Sub:

Contract Summary Reviewers & Submitters Contract Tasks/Plans Submission Events Received Submissions

Contract Summary

Program Name: Test	Program URI: Unknown	Program Manager: Unknown
Contract Number: XXXXXX-XX-X-XXXX	Contractor Name: DCARC Test	Contractor Division: DCARC IT Team
Sub Contract Number:	Sub Contractor Name:	Sub Contractor Division:
Military Handbook: OTHER	Service: DOD	Prime/Sub: Prime
Weapon System Type: OTHER	Contract Type: Unknown	



CSDR S-R: Accessing CSDR plans (cont.)

OSD CAPE

- On the “Contract Detail” page, select the “Contract Tasks/Plans” tab
- After selecting “View,” the .xls and .xml plans will be available for download

Contract Detail

Prog:Test	Ctr#:XXXXXXXX-XX-X-XXXX
Ctr:DCARC Test	Sub:

[Contract Summary](#) |
 [Reviewers & Submitters](#) |
 [Contract Tasks/Plans](#) |
 [Submission Events](#) |
 [Received Submissions](#)

Contract Tasks/Plans

	Contract Task	Plan Number	Phase	Model	Effort	Contract Plans	
Manage	CIP Lot 7-9	AF-05-D-C4-S1	OTHER	F-22	CIP Sub	View	✕

[Contract Summary](#) |
 [Reviewers & Submitters](#) |
 [Contract Tasks/Plans](#) |
 [Submission Events](#) |
 [Received Submissions](#)

Contract Tasks/Plans

Contract Task	Plan Number	Phase	Model	Effort	Contract Plans
CIP Lot 7-9	AF-05-D-C4-S1	OTHER	F-22	CIP Sub	Hide
Plan Number	Active	Plan Date	Comments	XML	Non-XML
AF-05-D-C4-S1(R1)	<input checked="" type="checkbox"/>	2/9/2011		20071012_HIMARS_PLAN_LRIP_LRIP_III_Contract_Plan_A-03-E-C1(R4).cplan.xml	2007100629_Longbow_Apache_Ext_BlK_II_Aircraft_PLAN_Con
AF-05-D-C4-S1	<input type="checkbox"/>	3/13/2009		20090313_F-22_PROD_AF-05-D-C4-S1(R1).cplan.xml	20090313_F-22_PROD_AF-05-D-C4-S1(R1).xls



Data Providers: cPet Desktop and Web

OSD CAPE

cPet Desktop & Web

Preparation and validation of cost reports prior to submission

- Excel Flat File
- DCARC XML Files
- Automated validation

CSDR S-R

Access list of upcoming, overdue, and finalized submissions

Submission and validation of reports

Data providers submit reports



cPet Desktop and Web

OSD CAPE

- cPet, CSDR Planning and Execution Tool, is used by data providers to prepare and validate reports
 - CCDRs (DD 1921, 1921-1, and 1921-2) can be generated using the Excel Flat File
 - Allows users to import all CCDR data into one template
 - cPet converts the data to DD Forms or XML schemas
 - Generation of DCARC XML files required for submission
 - CCDRs are validated against the plan to ensure data is correct prior to submission

cPet Desktop: <http://dcarc.cape.osd.mil/CSDR/cPet.aspx>

cPet Web: <https://service.dcarc.cape.osd.mil/cPetWeb/>



Excel Flat File

OSD CAPE

- cPet Desktop can create 1921, 1921-1, and 1921-2 reports from a standard Excel Flat File

Metadata		WBS Reporting Element	WBS Code	WBS Reporting Elements	Units	TD	NR \$ TD	Rec \$ TD	Units	AC	NR \$ AC	Rec \$ AC	NR	Eng	Hr	Rec	Eng	Hr	NR	Eng	Hr	Rec	Eng	Hr	NR	Direct	Rec	Direct	NR	Direct	
Data Type	1921/1921-1 Input		1.0	S-52 Space System	0		419000	49200	1		2819000	140700	2000	1000	3000	4000	100000	10000	500000												
Data Version	2007		1.1	SEIT/PM and Other Common	0		25000	25000	1		125000	29000	500	200	600	300	600	600	10000												
Security Classification	Unclassified		1.2	Space Vehicle (1...n as requi	0		229000	13200	1		1329000	57200	600	300	700	400	39000	2000	250000												
1a Program MDAP	S-52 Space System		1.2.1	SEIT/PM and Other Common	0		24000	5000	1		124000	9000																			
1b Program Phase	Development		1.2.2	Spacecraft Bus	0		22000	2500	1		222000	10500																			
2 Prime Mission Product	Demo PMP		1.2.2.1	Integration, Assembly, Test and	0		12000	2000	1		112000	6000																			
3 Contractor Type	Prime/Associate		1.2.2.2	Telemetry, Tracking, and Com	0		10000	500	1		110000	4500																			
4 Name	Demo Corporation		1.2.3	Communication / Payload	0		24000	0	1		424000	16000																			
4 Address Line 1	456 Test Blvd		1.2.3.1	Communication	0		17000	0	1		217000	8000																			
4 Address Line 2			1.2.3.1.1	UHF Antenna Subsystem	0		8000	0	1		108000	4000																			
4 Address City	New York		1.2.3.1.2	KA Antenna Subsystem	0		9000	0	1		109000	4000																			
4 Address State	NY		1.2.3.2	Payload	0		7000	0	1		207000	8000																			
4 Address Zip	55555		1.2.3.2.1	Legacy Subsystem	0		3000	0	1		103000	4000																			
5 Approved Plan Number	X-08-Y-C1		1.2.3.2.2	KA to UHF Subsystem	0		4000	0	1		104000	4000																			
6 Customer			1.2.4	Booster Adapter	0		5000	200	1		105000	4200																			
7 Contract Type			1.2.5	Space Vehicle Storage	0		4000	500	1		104000	4500																			
8 Contract Price	3219200		1.2.6	Launch Systems Integration	0		50000	2000	1		150000	6000																			
9 Contract Ceiling	N/A		1.2.7	Launch Operations & Mission	0		100000	3000	1		200000	7000																			
10a Contract No	A99XYZ-08-B-1234		1.3	Ground (1...n as required)	0		128000	7000	1		1128000	47000																			
10b Latest Modification			1.3.1	SEIT/PM and Other Common	0		20000	2000	1		120000	6000																			
10c Solicitation No			1.3.2	Ground Terminal Subsystems	0		13000	0	1		113000	4000																			
10d Name	Demo		1.3.3	Command and Control Subsys	0		14000	0	1		114000	4000																			
11a PoP Start Date	20080513		1.3.4	Mission Management Subsystem	0		18000	0	1		118000	4000																			
11b PoP End Date	20100131		1.3.5	Data Archive/Storage Subsystem	0		9000	0	1		109000	4000																			
12 Appropriation	Procurement		1.3.6	Mission Data Processing Subsystem	0		10000	1000	1		110000	5000																			
13 Report Cycle	Interim		1.3.7	Mission Data Analysis and Dis	0		8000	500	1		108000	4500																			
14 Submission Number	1		1.3.8	Mission Infrastructure Subsystem	0		12000	500	1		112000	4500																			
15 Resubmission Number	0		1.3.9	Collection Management Subsystem	0		4000	1000	1		104000	5000																			
16 Report As Of	20081031		1.3.10	Satellite Control Subsystem	0		20000	2000	1		120000	6000																			
17 Name	Tester, Fred A		1.4	Launch Vehicle	0		15000	3000	1		115000	7000																			
18 Department	Business Operations		1.5	User Equipment	0		22000	1000	1		122000	5000																			
19 Telephone Number	555-555-5555																														
20 Email Address	cPetUser@company.com																														
21 Date Prepared	20081201																														

Metadata

Summary Elements and Remarks

Data Reporting Structure

1921 Data

1921-1 Data

WBS Code	WBS Reporting Elements	Units	Lots	Column	MODEL	SER	F	UNIT	L	UNIT	CONCUR	Rec	Eng	Hrs	Rec	Direct	Eng	\$ TD	Rec	Tool	Hrs	TD	Rec	Tool	E	Rec	Tool	E	Rec	QC	H
1.1	Radar (AN/APY-79)	Lot	Total	A1	AN/APY-79			10	14		5	500					35129					111	3785			141		387			
				A2	AN/APY-79			15	24		15	215					11825					42	2841			289		248			
				A3	AN/APY-79			25	34		30	204					10489					38	2684			589		215			
				A4																											
				WIP				0	0																						
				Total	Direct	AN/APY-79		10	34		50	919					57443					191	9310			1019		850			

1921-2 Data

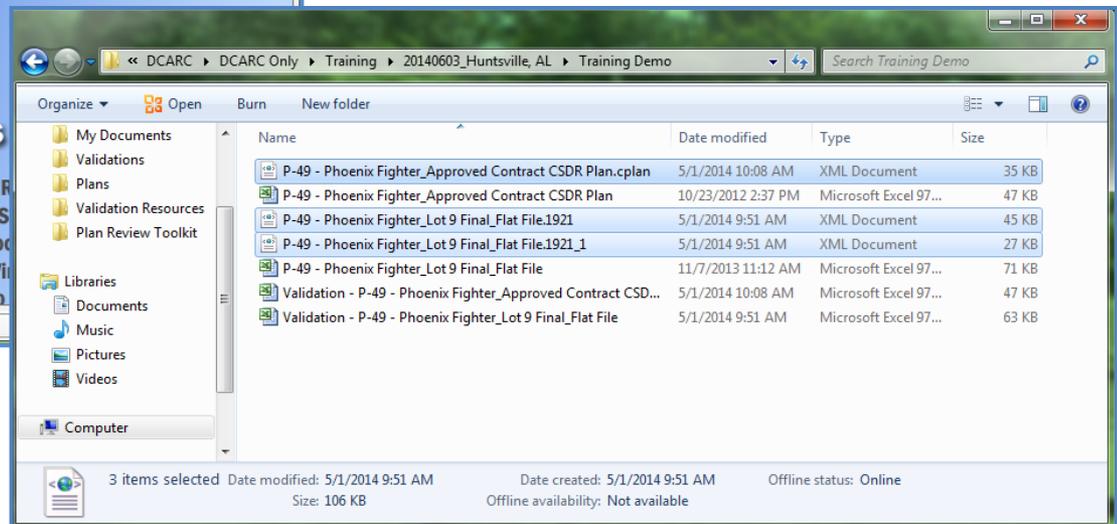
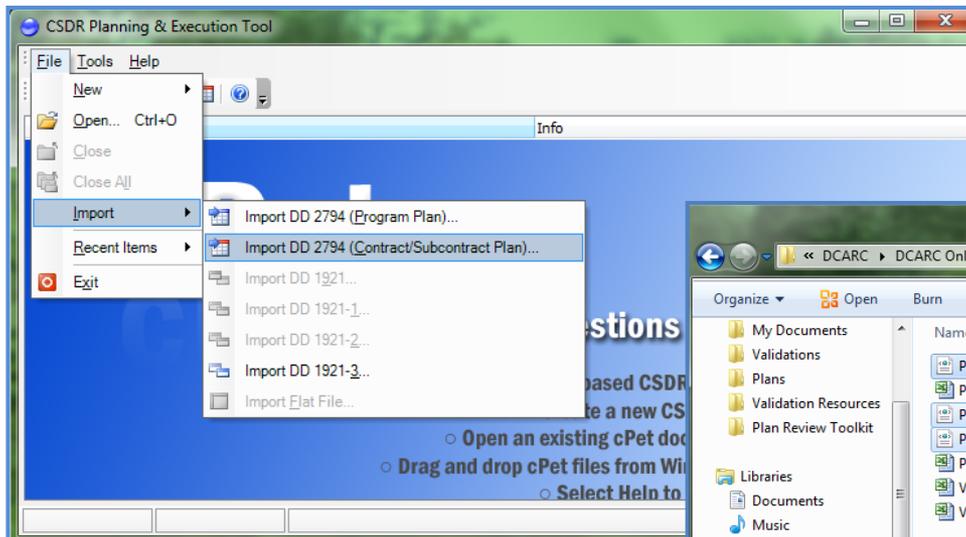
The Flat-File Template is available for download at <http://dcarc.cape.osd.mil/CSDR/cPet.aspx>



Preparing CCDR Submissions

OSD CAPE

- Export Excel Flat File/DD Forms to XML reports
 - Select File – Import – Import DD 2794 (Contract/Subcontract Plan)
 - Select File – Import – Import Flat File or DD 1921 series
 - XML files for CSDR Plan, and DD 1921 series are generated automatically after import into cPet in the folder containing the Plan and Flat File/DD 1921 series



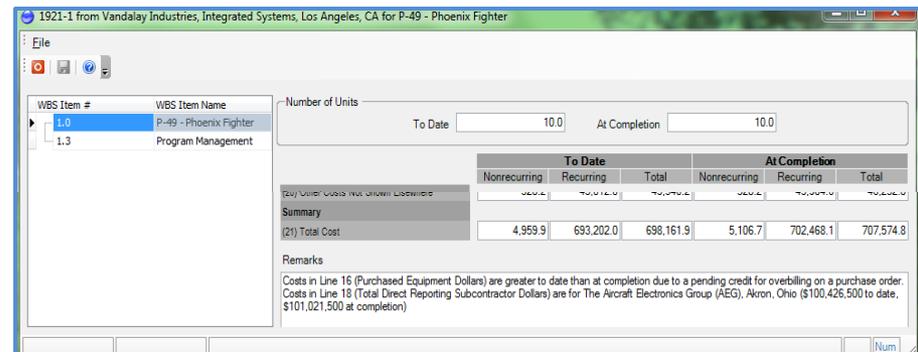
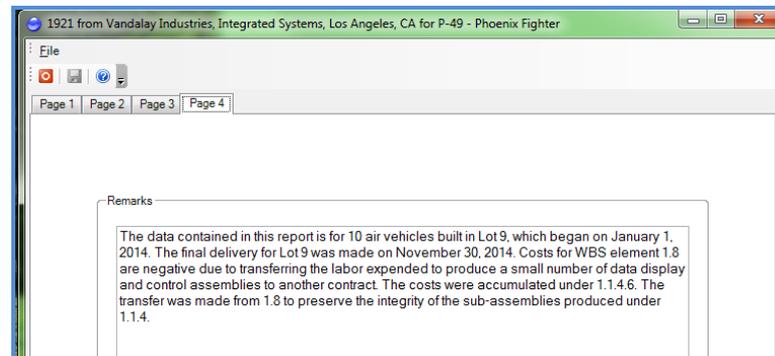
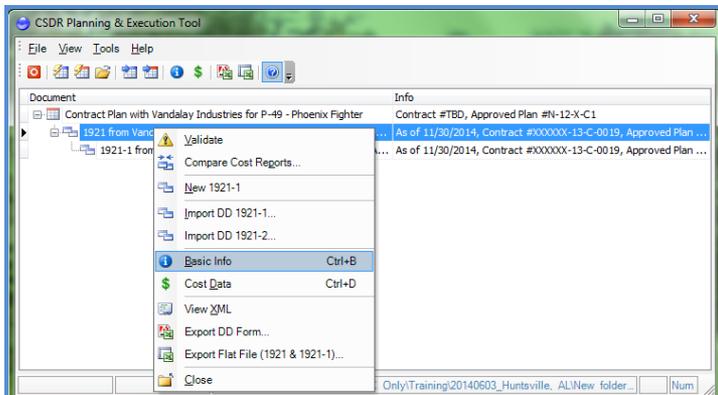
XML files must be submitted for *all* DD 1921 series reports contracted via the 2011 DIDs



Checking XML Files

OSD CAPE

- Data stored in the XML files can be viewed easily in cPet
- Ensure all data transferred from Excel to XML correctly
 - To ensure explanations transferred:
 - Select DD 1921, right-click and navigate to “Basic Info” window, “Page 4” tab.
 - Select DD 1921-1/1921-2, right-click and navigate to “Cost Data” window
 - If the Remarks sections do not contain all explanations, insert them and select save

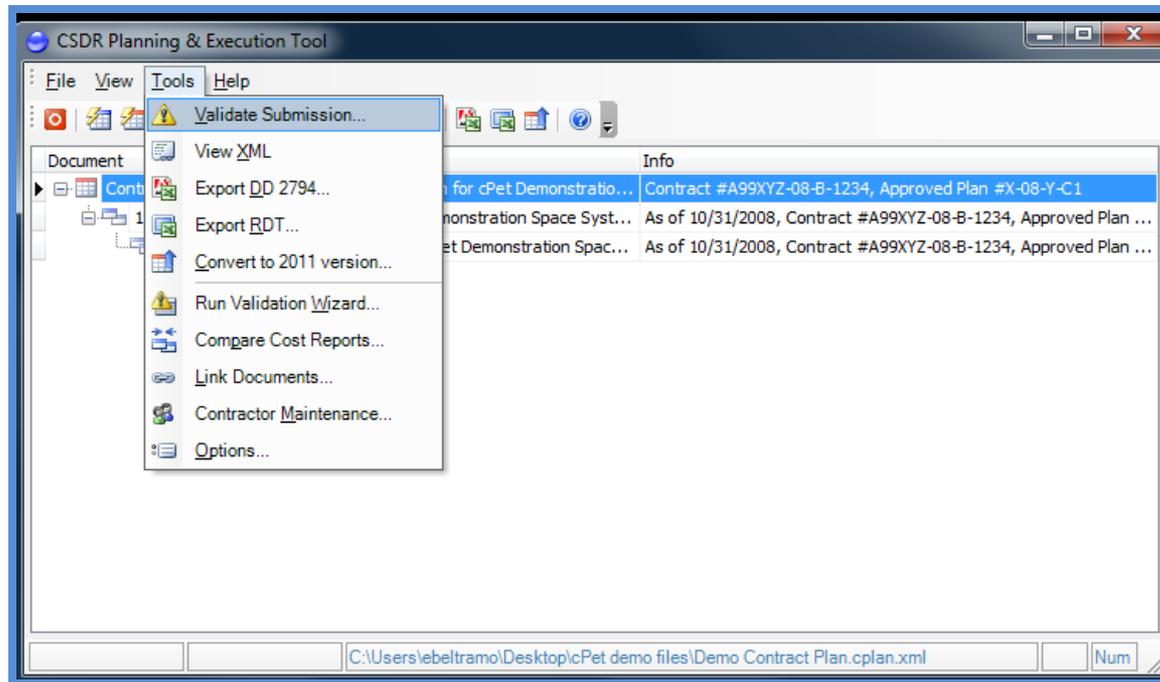


Validate submission to ensure all data is XML compliant

Validating CCDR Submissions

OSD CAPE

- cPet should be used prior to submission to ensure that reports are free of errors
 - Select File – Import – Import DD 2794 (Contract/Subcontract Plan) – Import Flat File or DD 1921 series
 - Highlight Contract Plan – Select Tools – Validate Submission





cPet errors about XML compliance

OSD CAPE

- cPet validation error report displays errors for data that are not converted to the XML schema
- Common errors include:
 - Metadata does not match
 - Required reporting element omitted
 - Reporting Contractor G&A/FCCM/Profit/Loss, or Fee reports zero cost at completion
 - Could not interpret contract price/ceiling
 - Subtotal does not match root WBS element (1.0)
 - Summary elements do not sum correctly
 - Corresponding quantities do not match
- Most noncompliant data will appear as blank or “—” in the cPet validation error report “Details” section
- Data can be edited in cPet for XML compliance in the “Basic Info” and “Cost Data” windows



cPet Summary

OSD CAPE

- Desktop and Web Versions
- Transforms Flat File into DD 1921, 1921-1, and 1921-2 Forms and XML files
- Performs preliminary CSDR Validations
 - Numbers sum correctly
 - Consistent data between 1921, 1921-1, and 1921-2
 - Highlights numerical anomalies (negative costs, to date costs decrease at completion)
 - Highlights entries requiring explanation (Other Costs Not Shown Elsewhere greater than 10%, costs reported for Direct Reporting Subcontractors)
 - Compares 1921, 1921-1, and 1921-2 to CSDR Contract Plan
 - Required elements are reported
 - Element names are reported correctly
 - 1921-1 & 1921-2 reports submitted for all required elements with costs



Data Providers: CSDR S-R

OSD CAPE

cPet Desktop & Web

Preparation and validation of cost reports prior to submission

- Excel Flat File
- DCARC XML Files
- Automated validation

CSDR S-R

Access list of upcoming, overdue, and finalized submissions

Submission and validation of reports

Data providers submit reports



CSDR Submit-Review (CSDR S-R)

OSD CAPE

- The CSDR S-R manages all CSDR Submission and Review functions for data submitters (excluding 1921-3) including:
 - Access to list of upcoming, overdue, and finalized submissions
 - Submission and validation of Cost and Software Data Reports

CSDR S-R: <http://dcarc.cape.osd.mil/CSDR/Default.aspx> (select "Portal Login")



CSDR S-R: Submitter Role

OSD CAPE

- To upload submissions and access CSDR plans, submitters navigate to “Upload Home”
- If submission events do not appear, select the “Contract Request” tab and enter the contract/plan number of the submission missing from the queue
 - An email will be sent to the DCARC analyst responsible for the program, who will review the request and provide access if appropriate (usually within 24 hours)

PORTAL HOME CSDR-SR HOME MY CSDR UPLOAD HOME SEARCH CONTACT US

Upload Home

(*** CSDR-SR Data Only, No EVM Data ***)

[Submission Events](#)
[Assigned Contracts](#)
[Submissions in Progress](#)
[Rejected Submissions](#)
[Submission History](#)
[Contract Request](#)

Submission Events

Date Range:
 Program:

Submission Stage:
 Contract:

No submission Events match the given criteria

Upload Home
 (***) CSDR-SR Data Only, No EVM Data (***)

[Submission Events](#)
[Assigned Contracts](#)
[Submissions in Progress](#)
[Rejected Submissions](#)
[Submission History](#)
[Contract Request](#)

Please enter the contract number of the request. After sending the request, the appropriate authority will review the request and act accordingly.

Contract Number:
 Plan Number:

CSDR S-R: Submitting Reports – Step 1: Navigate to Upload Home

OSD CAPE

- Navigate to “Upload Home”
 - On the “Upload Home” page, navigate to the correct, corresponding submission event and select “Upload”
 - On the “Upload Submission” page, enter the actual as of date, and point of contact information

Event Name	Expected Files	Expected As Of Date	Expected Submission Date	Prime Contract Number	Task	Plan Number	Program Name	Submission ID	Submission Status	Submission Stage	In Progress	Upload
Final Lot 7 Report, 4 accounting months after mont	1921,1921-1	10/24/2009	1/22/2010	XXXXXXXX-XX-X-XXXX	CIP Lot 7-9	AF-05-D-C4-S1	Test		Late			Upload
Interim Production Shutdown Reports, 60 days after	1921,1921-1	9/29/2013	11/28/2013	F33657-02-D-0009	F-22 Modernization	AF-05-D-C11	F-22 - RAPTOR Advanced Tactical Fighter					Upload
Final CWBS Dictionary	CWBS Dictionary	9/29/2013	11/28/2013	F33657-02-D-0009	F-22 Modernization	AF-05-D-C11	F-22 - RAPTOR Advanced Tactical Fighter					Upload
Final Report - LRIP_3	1921,1921-1	7/30/2014	9/30/2014	N00019-10-C-0044	E-2D AHE - E-2D Advanced Hawkeye	N-09-B-C2-S4	E-2D AHE - E-2D Advanced Hawkeye					Upload
Interim Production Shutdown Reports, 60 days after	1921,1921-1	9/28/2014	11/27/2014	F33657-02-D-0009	F-22 Modernization	AF-05-D-C11	F-22 - RAPTOR Advanced Tactical Fighter					Upload
Increment 3.2A Final Cost by Capability Tables	Other	12/28/2014										Upload
Final Report - LRIP_4	1921,1921-1	7/30/2015										Upload
Interim Production Shutdown Reports, 60 days after	1921,1921-1	9/27/2015										Upload
Cumulative Final Report	1921,1921-1	12/30/2015										Upload
Final Production Shutdown Reports, 60 days after S	1921,1921-1	9/29/2016										Upload

Submission Event

Plan Number: AF-05-D-C4-S1
 Submission Event: Final Lot 7 Report, 4 accounting months after mont
 Expected Files: 1921,1921-1
 Expected As Of Date: 10/24/2009
 Expected Submission Date: 1/22/2010

Submission Details

As Of Date:

Status: Late

Comment:
(Max 256 chr.)

Point of Contact Information

Name:

Phone:

Fax:

Email:

Enter an As Of Date, Name, Phone, and Email address and press the 'Next' button to continue.

CSDR S-R: Submitting Reports – Step 2: Upload Files

OSD CAPE

- Upload required reports
 - Submit all required documents and supporting information, choose the correct, corresponding file type, and select “Upload”
 - Cover letters should not be submitted

Submission Info
Files
Validation

Unclassified Documents Only

Required Files

1921,1921-1

Select a file to Upload

Caution: The total size of each file must be less than 30 mb.

File Comment:

Uploaded Files

	File Name	File Type	File Comment	Actions
	Demo 1921-2.1921_2.xml	1921-2		
	Demo 1921-1.1921_1.xml	1921-1		
	Demo 1921.1921.xml	1921		

Note: If you want to validate a 1921, 1921-1 or 1921-2 document, you must upload an xls, xlsx, or xml file. After all the required files are attached,

CSDR S-R: Submitting Reports – Step 3: Validate Reports

OSD CAPE

• Validate reports

– For CCDR submissions, the “Validate” tab will run cPet against the reports

- Select the 1921, 1921-1, and 1921-2 reports and correct corresponding contract plan and click “Validate”
- Check “Group Reports & View Data” and name the data set
- A .xls file will be generated under “Working Files”
- Review the file to verify that no major cPet errors exist in the reports

Submission Info

Files

Validation

Select Validation Options

1921

1921-1

1921-2

Contract Plan Number

Group Reports & View Data
 Name Data Set:

Working Files

	File Name	File Type	Created
	XMLValidationResults Combined 1921 & 1921-1 & 1921-2.xls	Validation Results	5/19/

The DCARC validation tool now supports Excel 2011 documents.

Select the required 1921, 1921-1, and 1921-2 reports and select "Validate"

Submission Event

Submission Event Number: 7

Submission Event Name: Lot 9 Completion

Assigned Plan Number (xml): [Demo Plan](#)

Category	Severity	Location	Description
Summary		Contract Plan	OK
Summary		1921 vs Contract Plan	OK
Summary	Error	1921 Internal	Major errors found.
Summary	Error	1921-1 vs Contract Plan	Major errors found.
Summary	Error	1921-1 vs 1921	Major errors found.
Summary	Error	1921-1 Internal	Major errors found.
Summary	Error	1921-2 vs Contract Plan	Major errors found.
Summary		1921-2 vs 1921	OK
Summary	Error	1921-2 vs 1921-1	Major errors found.
Summary	Error	1921-2 Internal	Major errors found.
1921 Internal	Warning	WBS Element Code: 1.5 WBS Element Name: User Equipment	To Date figure is greater than At Completion figure.
1921 Internal	Error	Summary Element: Reporting Contractor Profit/Loss or Fee	Reporting Contractor Profit/Loss or Fee reports zero co
1921-1 vs Contract Plan	Error	WBS Element Code: 1.2.3 WBS Element Name: Communication / Payload	Required reporting element omitted from 1921-1 submis
1921-1 vs Contract Plan	Error	WBS Element Code: 1.2.3.2.2 WBS Element Name: KA to UHF Subsystem	Required reporting element omitted from 1921-1 submis
1921-1 vs Contract Plan	Error	WBS Element Code: 1.3 WBS Element Name: Ground (1..n as required)	Required reporting element omitted from 1921-1 submis
1921-1 vs Contract Plan	Error	WBS Element Code: 1.3.3 WBS Element Name: Command and Control Subsystem	Required reporting element omitted from 1921-1 submis
1921-1 vs 1921	Error	WBS Element Code from 1921: 1.0 WBS Element Name from 1921: Space System WBS Element Code from 1921-1: 1.0 WBS Element Name from 1921-1: Space System	Corresponding quantities on 1921-1 and 1921 do not m
1921-1 Internal	Warning	WBS Element Code: 1.2	To Date figure is greater than At Completion figure.

CSDR S-R: Submitting Reports – Step 4: View Report Data



Submitters should look for instances of missing or partial data

Submission Info | Files | Validation | **View Report Data** | Review & Submit

Contract Data	
Element	Lot 9 Completion
Report Name:	Lot 9 ✎ ✕
Generation Date:	5/19/2014
Generated by:	Test CSDRSubmitter
Click to View Data Report	
Report IDs:	1921 ID: 96 1921-1 ID: 79 1921-2 ID: 42
1921 File Name:	Demo 1921.1921.xml
1921-1 File Name:	Demo 1921-1.1921_1.xml
1921-2 File Name:	Demo 1921-2.1921_2.xml
Contract Number	W58RGZ-08-C-0003
Plan Number	N-05-D-C5-S1(R)
Submission ID	1789
Submission Event Number	7
Submission Event Name	Lot 9 Completion
Submitted Date	
As Of Date	5/1/2014
Subtotal Cost	468200.0
Reporting Contractor G&A	54000.0
Reporting Contractor Undistributed Budget	0.0
Reporting Contractor Management Reserve	0.0
Reporting Contractor FCCM	1500.0
Total Cost	523700.0
Reporting Contractor Profit/Loss or Fee	0.0
Total Price	523700.0

Contract Data | **Report Data**

Report Name: Lot 9

Header Data | 1921 Cost Data | 1921-1 Cost Data | 1921-2 Cost Data

MAJOR PROGRAM a. NAME: cPet Demonstration Space System (CDSS)
b. PHASE/MILESTONE

PRIME MTR	REPORTING	WBS ELEMENT CODE	WBS REPORTING ELEMENTS	NUMBER OF UNITS TO DATE	COSTS INCURRED TO DATE (thousands of U.S. Dollars)			NUMBER OF UNITS
					NON-RECURRING	RECURRING	TOTAL	
1.0			Space System	0	475,000.00	49,200.00	468,200.00	
1.1			SEIT/PM and Other Common Elements	0	25,000.00	25,000.00	50,000.00	1

NAME/ADDRESS: 1.2
APPROVED: 1.1
CUSTOMER: 1.2.3
CONTRACT: 1.2.3.1
CONTRACT: 1.2.3.1.1
CONTRACT: 1.2.3.1.2
CONTRACT: 1.2.3.2
CONTRACT: 1.2.3.2.1
CONTRACT: 1.2.3.2.2
CONTRACT: 1.2.4
TYPE ACT: 1.2.5
PERIOD OF: 1.3.3
APPROPRI: 1.3.5
REPORT C: 1.3.7
SUBMISSION: 1.3.8
REPORT AS OF (YY): 1.3.9
DATE PREPARED (YY): 1.3.10

Number of Units
To Date: 0 At Completion: 1

	To Date			At Completion		
	Nonrecurring	Recurring	Total	Nonrecurring	Recurring	Total
Engineering						
(1) Direct Eng						
(2) Direct Eng						
(3) Engineer						
(4) Total Eng						
Manufacturing						
(5) Direct To						
(6) Direct To						
(7) Direct To						
(8) Direct Qu						
(9) Direct Qu						
(10) Direct M						
(11) Direct M						
(12) Manufac						
(13) Total Ma						
Materials						
(14) Raw Ma						
(15) Purchas						
(16) Purchas						
(17) Material						
(18) Total Di						
(19) Total Ma						
Other Costs						
(20) Other C						
Summary						
(21) Total Co						
Remarks						

Units/Lots Completed
 Unit Total Lot Total

DATA ELEMENTS	A. COMPLETED UNITS/LOTS				B. WORK IN PROCESS (WIP)	C. TOTAL DIRECT COSTS AND HOURS INCURRED TO DATE
	A1	A2	A3	A4		
(1) MODEL AND SERIES	xyz	xyz	xyz	xyz	xyz	xyz
(2) FIRST UNIT	1.00	2.00	3.00	5.00	2.30	15.00
(3) LAST UNIT						
(4) CONCURRENT UNITS						
CHARACTERISTICS						
(5.1) Weight	5	5	5	5	5	5
(5.2) Power	2	3	4	5	6	7
(5.3) Length	2	2	2	2	2	2
ENGINEERING (RECURRING ONLY)						
(6) DIRECT ENGINEERING LABOR HOURS						1000.00
(7) DIRECT ENGINEERING LABOR DOLLARS						10000.00
MANUFACTURING OPERATIONS (RECURRING ONLY)						
(8) DIRECT TOOLING LABOR HOURS						0.00
(9) DIRECT TOOLING LABOR DOLLARS						0.00
(10) DIRECT TOOLING & EQUIPMENT DOLLARS						0.00
(11) DIRECT QUALITY CONTROL LABOR HOURS						0.00
(12) DIRECT QUALITY CONTROL LABOR DOLLARS						0.00
(13) DIRECT MANUFACTURING LABOR HOURS						80.00
(14) DIRECT MANUFACTURING LABOR DOLLARS						1000.00
(15) TOTAL DIRECT MANUFACTURING OPERATIONS DOLLARS						1000.00
MATERIALS (RECURRING ONLY)						
(16) RAW MATERIALS DOLLARS						0.00

CSDR S-R: Submitting Reports – Step 5: Submit Reports

OSD CAPE

• Submit reports

- Under “Submission Warnings” a message stating “All required files are present” should appear
- If files are missing, select the “Back” option to upload missing documents
- Click “Submit” to complete submission

Submission Info	Files	Validation	View Report Data	Review & Submit												
Contract Information																
Contract Summary																
Program Name:	MH-60R - Multi-Mission Helicopter Upgrade	Program URI:	urn:us:mil:osd:acq:cars:pno-191	Program Manager: unknown												
Contract Number:	WS8RGZ-08-C-0003	Contractor Name:	Sikorsky Aircraft Corporation	Contractor Division: N/A												
Sub Contract Number:	unknown	Sub Contractor Name:	GKN Aerospace	Sub Contractor Division: Westland Aerospace												
Military Handbook:	AIRCRAFT	Service:	ARMY	Prime/Sub: Sub												
Weapon System Type:	Search & Rescue Helicopter	Contract Type:	CPAF													
Submission Event Plan Number: N-05-D-CS-S1(R) Selected Event Lot 9 Completion Expected Files: 1921,1921-1 Expected As Of Date 4/30/2013 Expected Submission Date 6/29/2013		Submission Details As Of Date: 5/1/2014 Comment:		Point of Contact Information Name: Test CSDRSubmitter Phone: Lorem Ipsum Fax: Email testCSDRSubmitter@local.local												
Uploaded Files <table border="1"> <thead> <tr> <th>File Name</th> <th>File Type</th> <th>File Comment</th> </tr> </thead> <tbody> <tr> <td> Demo 1921-2.1921_2.xml</td> <td>1921-2</td> <td></td> </tr> <tr> <td> Demo 1921-1.1921_1.xml</td> <td>1921-1</td> <td></td> </tr> <tr> <td> Demo 1921.1921.xml</td> <td>1921</td> <td></td> </tr> </tbody> </table>					File Name	File Type	File Comment	Demo 1921-2.1921_2.xml	1921-2		Demo 1921-1.1921_1.xml	1921-1		Demo 1921.1921.xml	1921	
File Name	File Type	File Comment														
Demo 1921-2.1921_2.xml	1921-2															
Demo 1921-1.1921_1.xml	1921-1															
Demo 1921.1921.xml	1921															
Submission Warnings (Not including file validation) All required files are present.																
<input type="button" value="Back"/> <input type="button" value="Submit"/> Review the Uploaded Files and Submission Warnings. Select "Back" to make corrections or "Submit" to complete this submission.																



Data Users: cPet Desktop and Web

OSD CAPE

cPet Desktop & Web

Development of CSDR plans and RDTs

Plans submitted to PPM for CSDR IPT review

CSDR S-R

Program Planning Module (PPM): CSDR IPT confers, modifies, and votes on CSDR Plans

Request submission date changes

Review CSDR reports prior to acceptance

Accepted Submissions

DACIMS

Accepted CSDRs and supporting documents stored

Supports government cost estimating functions



Data Users: cPet Desktop and Web

OSD CAPE

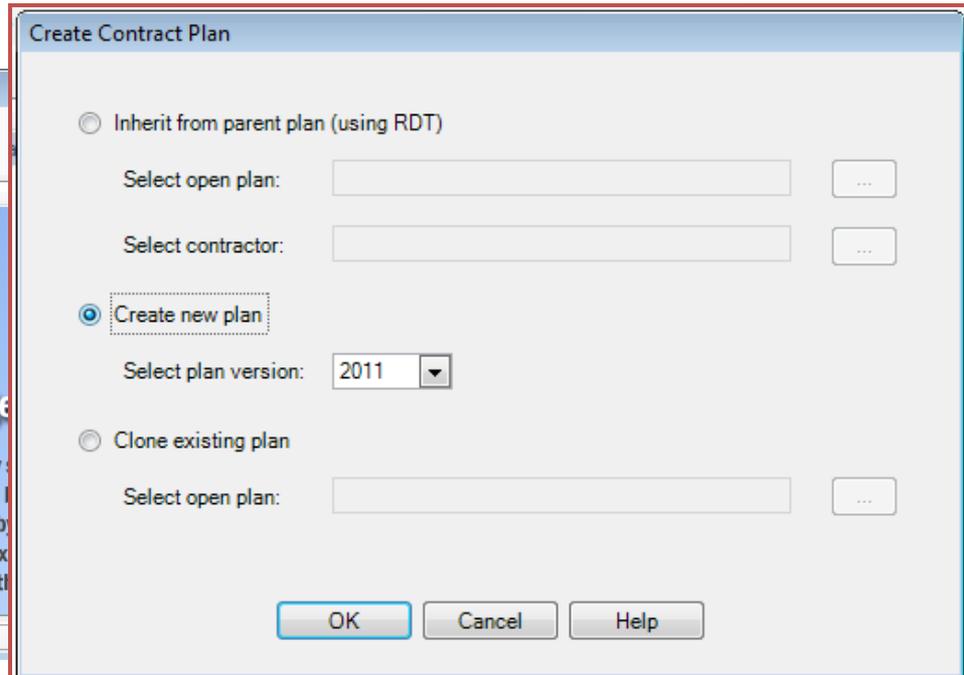
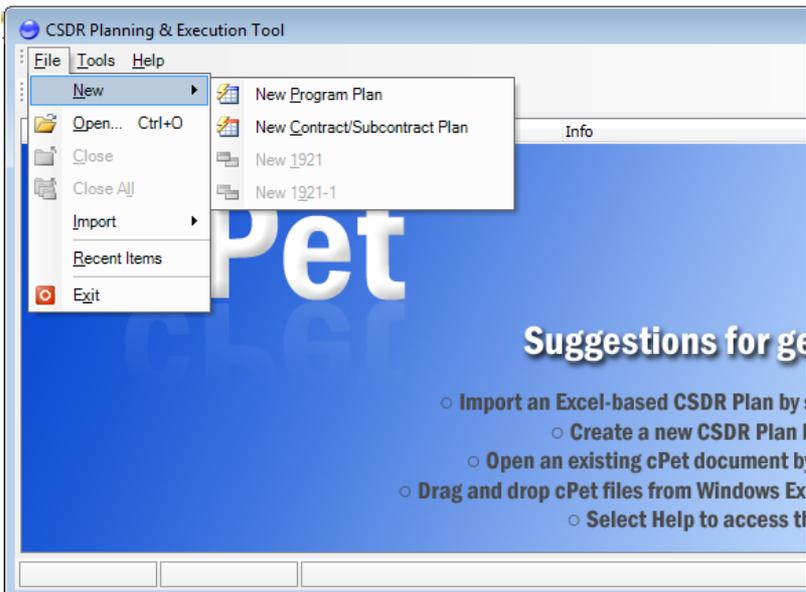
- cPet can be used by Program Offices to draft CSDR plans and RDTs
 - Uses MIL-STD-881C as a starting point for data reporting structures
 - Allows users to make new plans or modify existing plans
 - Ability to create RDTs



Drafting New CSDR Plans

OSD CAPE

- Data users can create new CSDR Plans by selecting File > New and selecting to create a new program or contract plan
- **Create new plan** to start with the MIL-STD-881C appendix
- **Clone existing plan** if the new CSDR plan will be similar to an existing CSDR plan
 - Copies metadata, data reporting structure, and submission events from existing plan

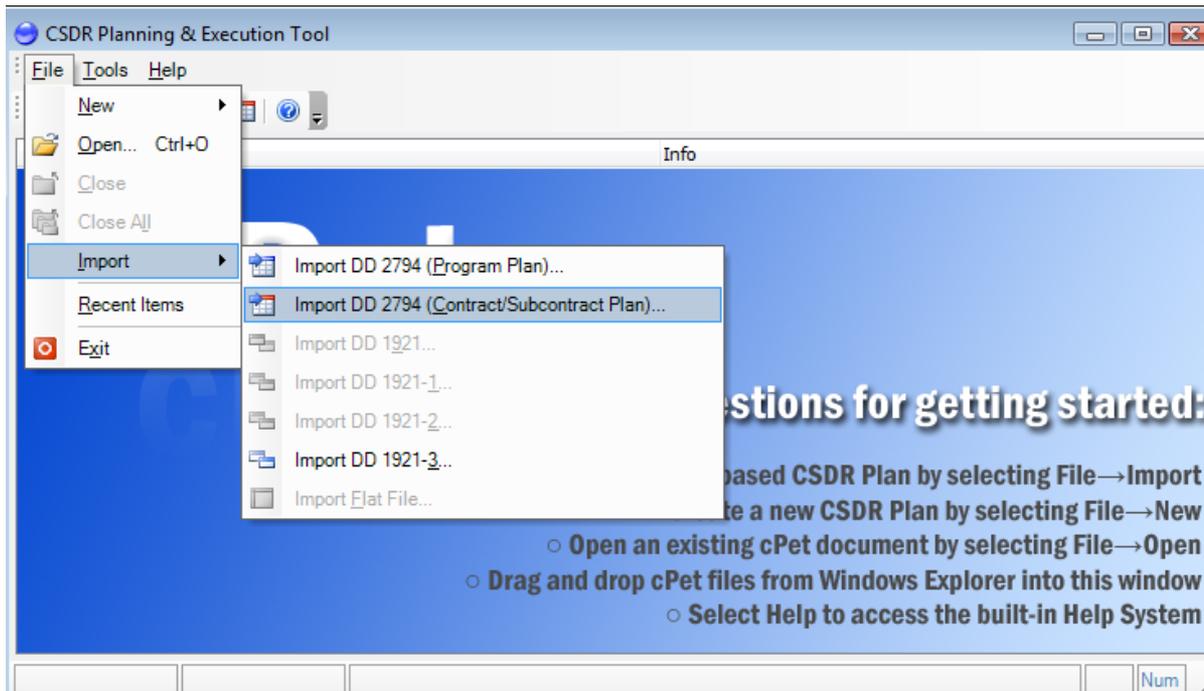




Revising CSDR Plans

OSD CAPE

- Importing an existing CSDR plan provides a starting point for plan revision



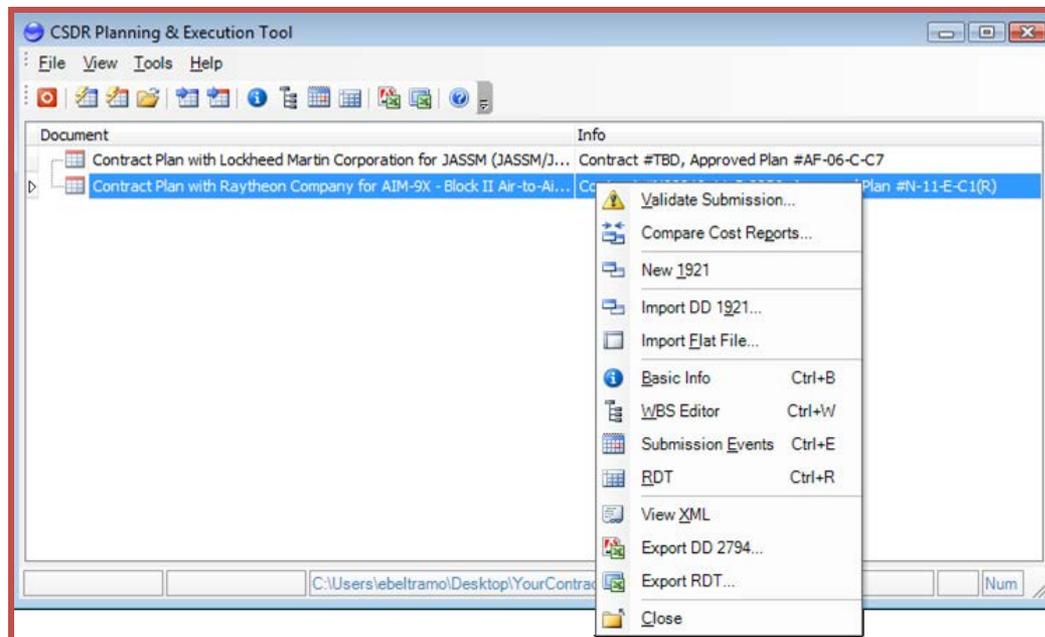
For cPet compatibility, the XML CSDR Plan file should be imported if available. Importing the Excel version of the plan will delete any information entered in the Remarks



Editing CSDR Plan Fields

OSD CAPE

- After the new or existing plan is in cPet, it can be edited by right clicking on the plan
-  **Basic Info** edits the metadata and Remarks sections of DD 2794
-  **WBS Editor** edits the data reporting structure and the reports required
-  **Submission Events** edits the required submissions, as of, and due dates
-  **RDT** opens the RDT editor





Editing the RDT

OSD CAPE

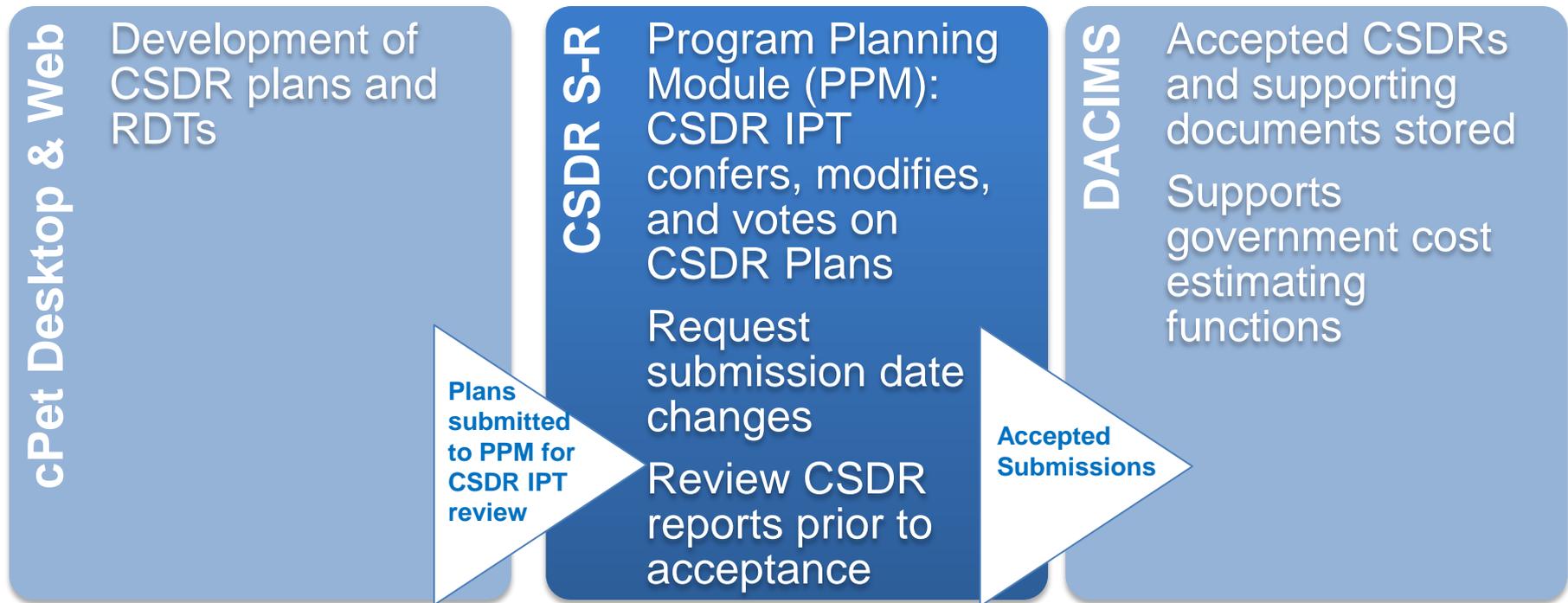
- The RDT editor allows the user to input information about the prime and subcontractor's efforts, contract value, software value and applicable elements
 - Information is edited on the “Prime Contractor” and “Subcontractor” tabs
 - Subcontractors are added by selecting the  icon

WBS Element Name	WBS Element Code	TBD	TBD
AIM-9X Missile System - Blk II ...	1.0	<input type="checkbox"/>	<input type="checkbox"/>
Air Vehicle	1.1	<input type="checkbox"/>	<input type="checkbox"/>
Propulsion (Stages I...n,]	1.1.1	<input type="checkbox"/>	<input type="checkbox"/>
Payload	1.1.2	<input type="checkbox"/>	<input type="checkbox"/>
Airframe	1.1.3	<input type="checkbox"/>	<input type="checkbox"/>
Reentry System	1.1.4	<input type="checkbox"/>	<input type="checkbox"/>
Post Boost System	1.1.5	<input type="checkbox"/>	<input type="checkbox"/>
Guidance and Control	1.1.6	<input type="checkbox"/>	<input type="checkbox"/>
G&C Software Dev...	1.1.6.1	<input type="checkbox"/>	<input type="checkbox"/>



Data Users: CSDR S-R

OSD CAPE





Data Users: CSDR S-R

OSD CAPE

- CSDR S-R serves many functions for data users:
 - Provides a forum for planning and reporting:
 - CSDR IPT drafts and collaborates on CSDR Plans and supporting documentation prior to approval
 - Program Office requests date changes for submission events
 - CSDR IPT reviews submitted reports and provides feedback prior to approval

All members of the CSDR IPT should register for Knowledge Portal access to the CSDR S-R to support CSDR data collection



Program Planning Module

OSD CAPE

- *What is the Program Planning Module (PPM)?*
 - A secure, controlled, organized and collaborative forum designed for DCARC analysts and CSDR IPT members to submit and review required CSDR plan documents
- *Where can I find it?*
 - Located in the DCARC's Knowledge Portal on the CSDR Submit-Review website, users with the 'CSDR Reviewer' role can find the Program Planning Module under the "MY CSDR" tab
- *When do I use it?*
 - The forum should be used:
 - Prior to RFP release for the approval of required CSDR plans
 - For the duration of the contract to process revisions as needed
- *Why is it better than eRooms, the prior Plan Development Forum?*
 - The PPM offers a more secure, efficient, and standardized way for the CSDR IPT to collaborate and vote on proposed CSDR plans
 - Integrated with the site where data is collected



Overview of Approval Process

OSD CAPE

Collaboration

In Vote

Director Review

CAPE Review

Approved

- **Collaboration:** Plan development phase where CSDR IPT members have action to submit or review CSDR Plans and supporting documentation
- **In Vote:** Members of the CSDR IPT vote to approve or disapprove the plan package
- **Director Review:** The DCARC Director will review and approve or disapprove the plan package
- **CAPE Review:** The Deputy Director, Cost Assessment (DDCA) will review and approve or disapprove the plan package
- **Approved:** The DDCA has signed and approved the plan



Program Planning Module Summary

OSD CAPE

- The new Program Planning Module brings the following benefits to the DCARC's plan development and approval process:
 - Organized file structure and compliance reporting
 - Information at the user's fingertips related to programs, plan packages, and plan tasks
 - Controlled access and editing features
 - Standardized business process
 - Collaborative setting for government CSDR IPT members
 - Increased efficiency of internal processes



CSDR S-R

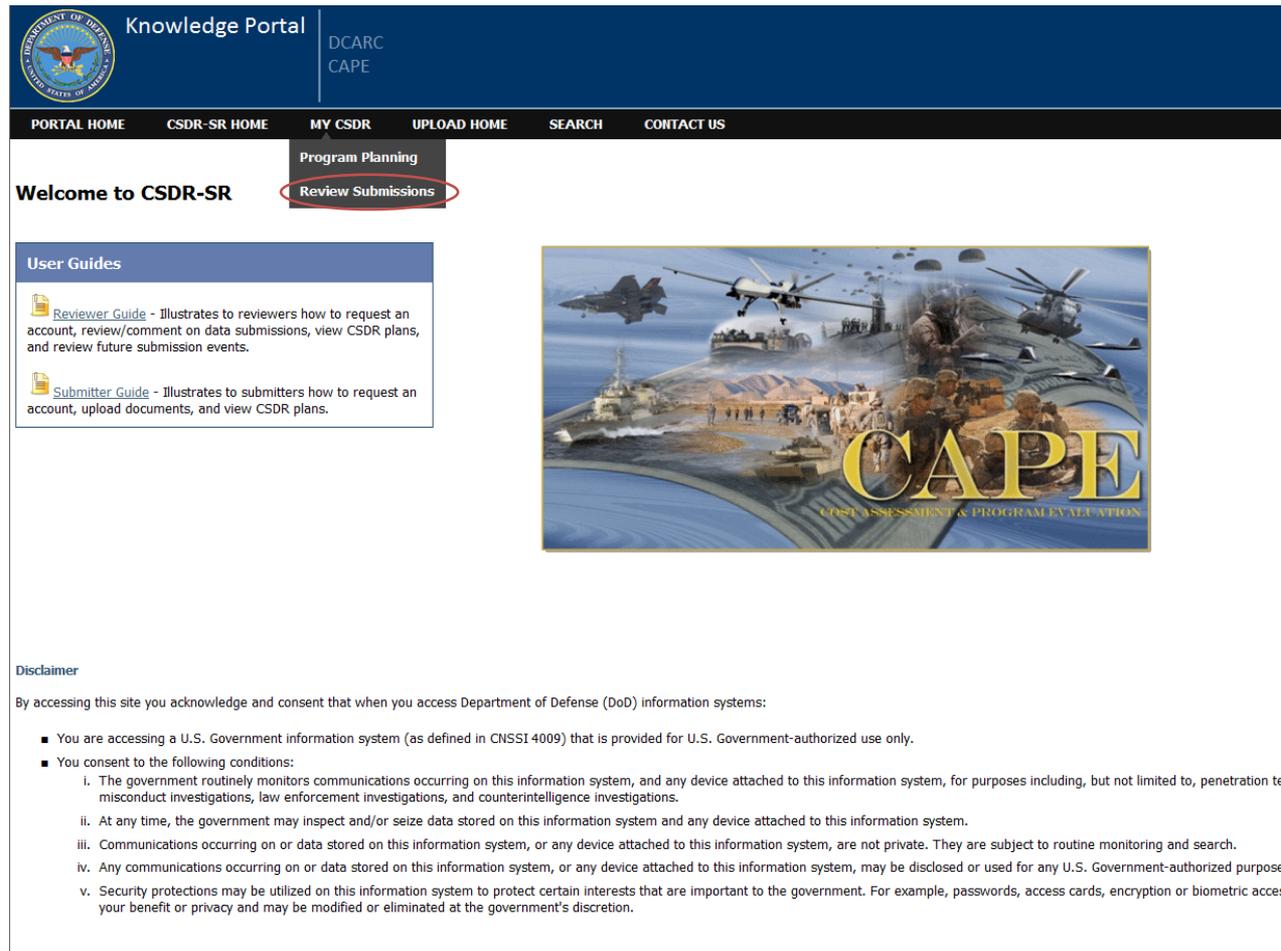
OSD CAPE

- After plans have been approved and processed through the PPM, submissions against the CSDR plans are established in the CSDR S-R
- CSDR IPT members must be engaged to ensure data is coming in correctly and on time

CSDR S-R: Requesting Date Changes – Step 1

OSD CAPE

- Program Office Lead Reviewers can request submission event date changes through the CSDR S-R
- Navigate to “MY CSDR” and select the dropdown option for “Review Submissions”



Knowledge Portal | DCARC
CAPE

PORTAL HOME CSDR-SR HOME MY CSDR UPLOAD HOME SEARCH CONTACT US

Program Planning
Review Submissions

Welcome to CSDR-SR

User Guides

[Reviewer Guide](#) - Illustrates to reviewers how to request an account, review/comment on data submissions, view CSDR plans, and review future submission events.

[Submitter Guide](#) - Illustrates to submitters how to request an account, upload documents, and view CSDR plans.

CAPE
COST ASSESSMENT & PROGRAM EVALUATION

Disclaimer

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CSDR S-R: Requesting Date Changes – Step 2

OSD CAPE

- On the “Review Submissions” page, select the “Contracts” tab
 - Select the “Prime Contract Number” associated with the contractor or subcontractor requiring a date change
 - The “Contract Detail” page for the associated contractor will appear
 - Navigate to the “Submission Events” tab to view the events and request a date change

Submission Review Home

Submissions **Contracts** Submission History Summary Report

Prime Contract Number	Plan Numbers	Program Name	PM	Contractor	Contractor Division	Role
<u>N0000-00-N-0000</u>	N000000-02	F-22 - RAPTOR Advanced Tactical Fighter	Unknown	Prime: i-Robot Corporation Sub:	Prime: N/A Sub:	Program Office Lead Reviewer

Contract Detail

Prog:F-22 - RAPTOR Advanced Tactical Fighter Ctr#:N0000-00-N-0000
 Ctr:i-Robot Corporation Sub:

Contract Summary **Reviewers & Submitters** Contract Tasks/Plans **Submission Events** Received Submissions

Submission Events

Plan Number: [All] Expected Files: [All] Latest Submission Status: [All]

Plan Number	Submission Number	Resubmit Number	Event Name	Required File Names	Expected As Of Date	Expected Submission Date	Actual As Of Date	Actual Submission Date	Latest Submission Status	Latest Submission Stage
123456	1		Test_Submission_CWBS	CWBS Dictionary	6/30/2009	8/30/2009	6/30/2009	8/30/2009	Accepted	Finalized
123456	2		Test_Submission	1921,1921-1	6/30/2009	8/30/2009	1/19/2012	1/19/2012	Rejected	Finalized
123456	2	1	Test_Submission	1921,1921-1	6/30/2009	2/28/2012	8/31/2009	10/9/2012	Accepted	Finalized
123456	3		Test_Submission_2	1921,1921-1	12/31/2013	2/28/2014				

Manage Submission Events



CSDR S-R: Requesting Date Changes – Step 3

OSD CAPE

- On the “Contract Detail” page, select the “Event Name” associated with the submission event requiring a date change
- Navigate to the “Submission Event Details” tab and select “Make Date Change Request”

Contract Detail

Prog:F-22 - RAPTOR Advanced Tactical Fighter Ctr #:N0000-00-N-0000
 Ctr I-Robot Corporation Sub:

Contract Summary Reviewers & Submitters Contract Tasks/Plans **Submission Events** Received Submissions

Submission Events
 Plan Number: [All] Expected Files: [All] Latest Submission Status: [All]

Plan Number	Submission Number	Resubmit Number	Event Name	Required File Names	Expected As Of Date	Expected Submission Date	Actual As Of Date	Actual Submission Date	Latest Submission Status	Latest Submission Stage
123456	1		Test Submission CWBS	CWBS Dictionary	6/30/2009	8/30/2009	6/30/2009	8/30/2009	Accepted	Finalized
123456	2		Test Submission	1921,1921-1	6/30/2009	8/30/2009	1/19/2012	1/19/2012	Rejected	Finalized
123456	2	1	Test Submission	1921,1921-1	6/30/2009	2/28/2012	8/31/2009	10/9/2012	Accepted	Finalized
123456	3		Test Submission 2	1921,1921-1	12/31/2013	2/28/2014				

Manage Submission Events

Submission Event Details

Back

Prog:F-22 - RAPTOR Advanced Tactical Fighter Ctr #:N0000-00-N-0000
 Ctr I-Robot Corporation Sub:

Contract Summary **Submission Event Details** Submissions Legacy SubmissionHistory

Expected As Of Date: 12/31/2013
 Expected Submission Date: 2/28/2014
 Submission Event Name: Test Submission 2
 Expected File types: 1921 1921-1 1921-2
 1921-4 2630-1 2630-2
 2630-3 CWBS Mapping CWBS Dictionary
 SRDR Dictionary SRDR Initial Report SRDR Final Report
 Other

Plan Number: 123456
 Submission Number: 3
 Resubmit Number:
 Comment:

Make Date Change Request
[Show Date Change Requests](#)

Date change requests should be made prior to the expected submission date



CSDR S-R: Requesting Date Changes – Step 4

OSD CAPE

Submission Event Details

[Back](#)

Prog:F-22 - RAPTOR Advanced Tactical Fighter Ctr#:N0000-00-N-0000

Ctr:i-Robot Corporation Sub:

[Contract Summary](#) [Submission Event Details](#) [Submissions](#) [Legacy SubmissionHistory](#)

Reason

Current As Of Date: 12/31/2013

Requested As Of Date: 4/30/2014

Current Expected Date: 2/28/2014

Requested Expected Date: 6/30/2014

Upload supporting document:

[Browse...](#)

[Upload Supporting Document](#)

Description:

[OK](#) [Cancel](#)

- Enter the requested as of and expected dates
- Explain the date change request in the “Description” field or upload a supporting document (e.g., schedule or SOW)
 - Date changes are only accepted for programmatic schedule slips
- Select “OK” and an automated email will be sent to the DCARC Analyst responsible for the program, who will review the request and accept the date change if appropriate (usually within one or two business days)



CSDR S-R: Reviewing Submissions

OSD CAPE

- To review CSDR submissions, select “Portal Login” from the DCARC homepage and select “CSDR-SR”
 - Navigate to “MY CSDR” and select “Review Submissions”
 - Submissions pending finalization are available for review here
 - Select a submission to review by clicking on the 4 digit Submission ID number

Program	Prime Cont...	Contractor...	Approved...	Submission...	Resubmiss...	Submission...	As Of Date	SR ID #	Due Date	Received D...	Status	SE Comment	Role
LAIRCM - Large Aircraft Infrared Countermeas...	FA8625-12-C-6598	Northrop Grumman Corporation	AF-09-K-C1(R)	1	0	Contract Initiation - CWBS Dictionary	8/30/2013	4389	9/30/2013	9/23/2013	In Process: DCARC	Full Comment	DCARC Reviewer
LAIRCM - Large Aircraft Infrared Countermeas...	FA8625-12-C-6598	Northrop Grumman Corporation	AF-09-K-C1(R)	2	0	Initial Report	8/30/2013	4391	9/30/2013	9/23/2013	In Process: DCARC	Full Comment	DCARC Reviewer
DON LAIRCM - Department of the Navy Large Aircraft Infrared Countermeas...	N00019-10-C-0036	Northrop Grumman Corporation	N-09-H-C1	1	1	Contract Initiation	9/26/2013	4403	12/5/2011	9/26/2013	In Process: Ctr	Full Comment	DCARC Reviewer
DON LAIRCM - Department of the Navy Large Aircraft Infrared Countermeas...	N00019-10-C-0036	Northrop Grumman Corporation	N-09-H-C1	3	0	Final Report - End of Contract FRP 1	9/26/2013	4404	2/28/2012	9/26/2013	In Process: DCARC	Full Comment	DCARC Reviewer



CSDR S-R: Reviewing Submissions

OSD CAPE

- On the “Submission Detail” page, navigate to the “Files” tab to download the reports

Submission Detail

Back | Previous | Next

Prog: DON LAIRCM - Department of the Navy Large Aircraft Infrared Countermeasure	Ctr#: N00019-10-C-0036
Ctr: Northrop Grumman Corporation	Sub:
Event: Final Report - End of Contract FRP 1	

Administrator Actions

[View Status/Stage Changes](#)

In Process: DCARC

[Edit Submission Details](#)

Contract Submission **Files** Validation Reviewers DCARC Actions

Submission Files

	File Name	File Name	File Type	File Comment	Created Date	
	CDRL A008- 1921-1 Rev3.xlsx	CDRL A008- 1921-1 Rev3.xlsx	1921-1		10/18/2013 5:28:53 PM	✕
	CDRL A008- 1921-1 Rev3.pdf	CDRL A008- 1921-1 Rev3.pdf	Other		10/18/2013 5:28:41 PM	✕
	CDRL A007-1921 Rev3.xlsx	CDRL A007-1921 Rev3.xlsx	1921		10/18/2013 5:28:27 PM	✕
	CDRL A007-1921 Rev3.pdf	CDRL A007-1921 Rev3.pdf	Other		10/18/2013 5:28:16 PM	✕



CSDR S-R: Reviewing Submissions

OSD CAPE

- After reviewing the reports, navigate to the “Reviewers” tab
 - Change the status to “Accepted” if the submission does not contain errors
 - Change the status to “Rejected” and upload comments if the submission does not meet data user requirements
 - Attachments can be uploaded to “Reviewer Files” by selecting the 
 - Select “Save” when comments are completed

Contract	Submission	Files	Validation	Reviewers	DCARC Actions
--------------------------	----------------------------	-----------------------	----------------------------	------------------	-------------------------------

Program Office Reviewers

Reviewer	Organization	Role	Status	Status Date	Comment
Jennifer Meredith	NAVAIR 4.2 Cost Department	Program Office Lead Reviewer	Pending		
Nathanael Wright	NAVAIR 4.2	Program Office Lead Reviewer	Pending		
Shevonne Stanley	NAVAIR	Program Office Reviewer	Pending		

Reviewer Files

There are no reviewer files uploaded for this submission.



Community of Interest Reviewers

There are no reviewers assigned to the contract for this submission.

DCARC Analysts

Reviewer	Organization	Status	Status Date	Comment	
Emily Beltramo	DCARC	Pending			Save



CSDR S-R: Summary

OSD CAPE

- CSDR IPT participation within the CSDR S-R is crucial to attaining reliable data for cost estimates by ensuring
 - Necessary requirements are established
 - Submissions are accurate and reflect expected data

Accepted submissions in DACIMS are only as good as the input we receive in the planning and review processes



Data Users: DACIMS

OSD CAPE

cPet Desktop & Web

Development of
CSDR plans and
RDTs

Plans
submitted
to PPM for
CSDR IPT
review

CSDR S-R

Program Planning
Module (PPM):
CSDR IPT
confers, modifies,
and votes on
CSDR Plans

Request
submission date
changes

Review CSDR
reports prior to
acceptance

Accepted
Submissions

DACIMS

Accepted CSDRs
and supporting
documents stored

Supports
government cost
estimating
functions



DACIMS: CSDR Repository

OSD CAPE

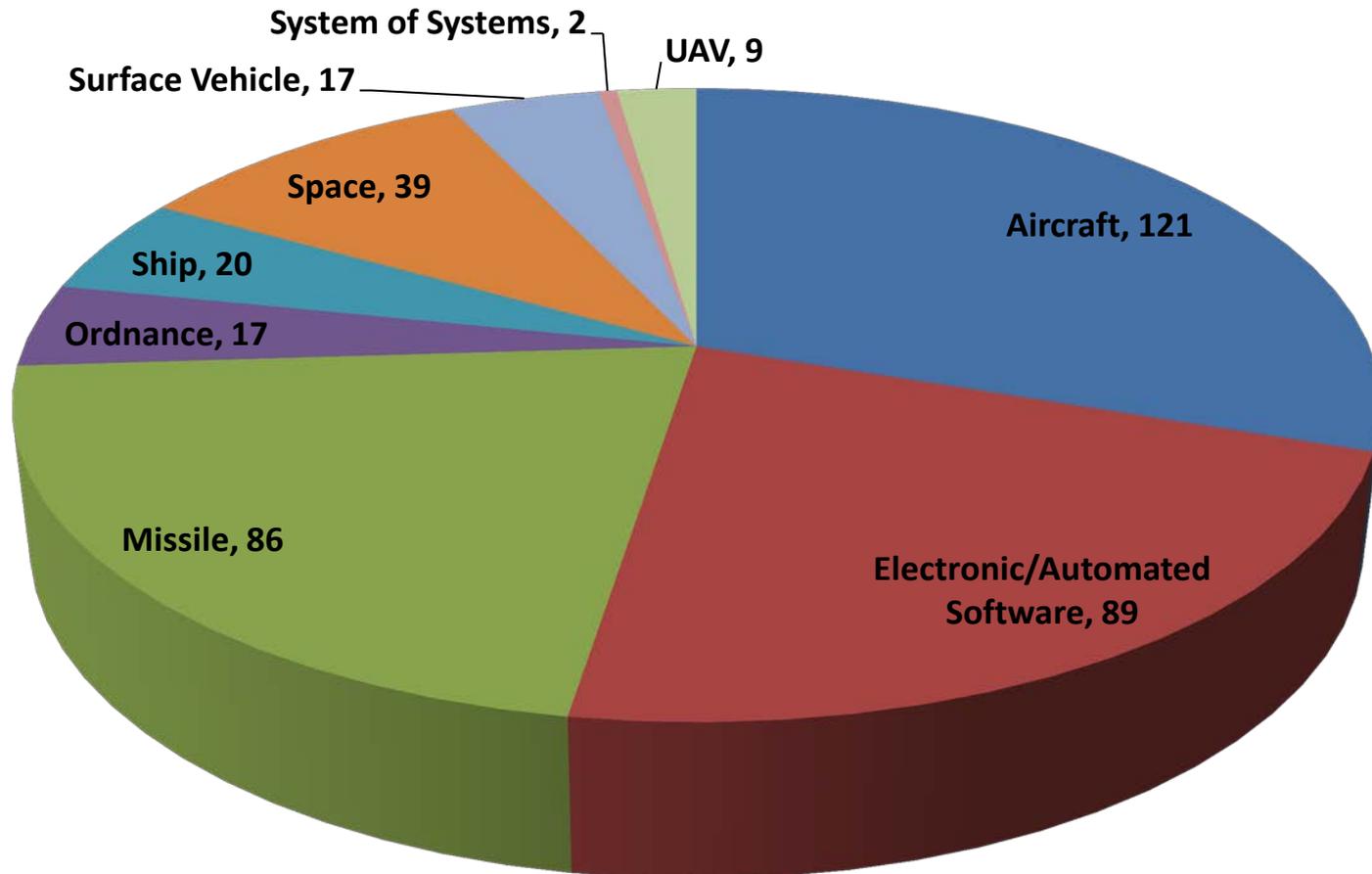
- Upon acceptance, reports are stored in the Defense Automated Cost Information Management System (DACIMS), a secure web-based repository
 - DACIMS can be accessed by DoD employees who have obtained online access through the DCARC website
 - Data is stored in folders organized by MIL-HDBK appendices



Programs in DACIMS

OSD CAPE

The DACIMS CSDR repository contains data for 400 programs, including current and legacy MDAP programs

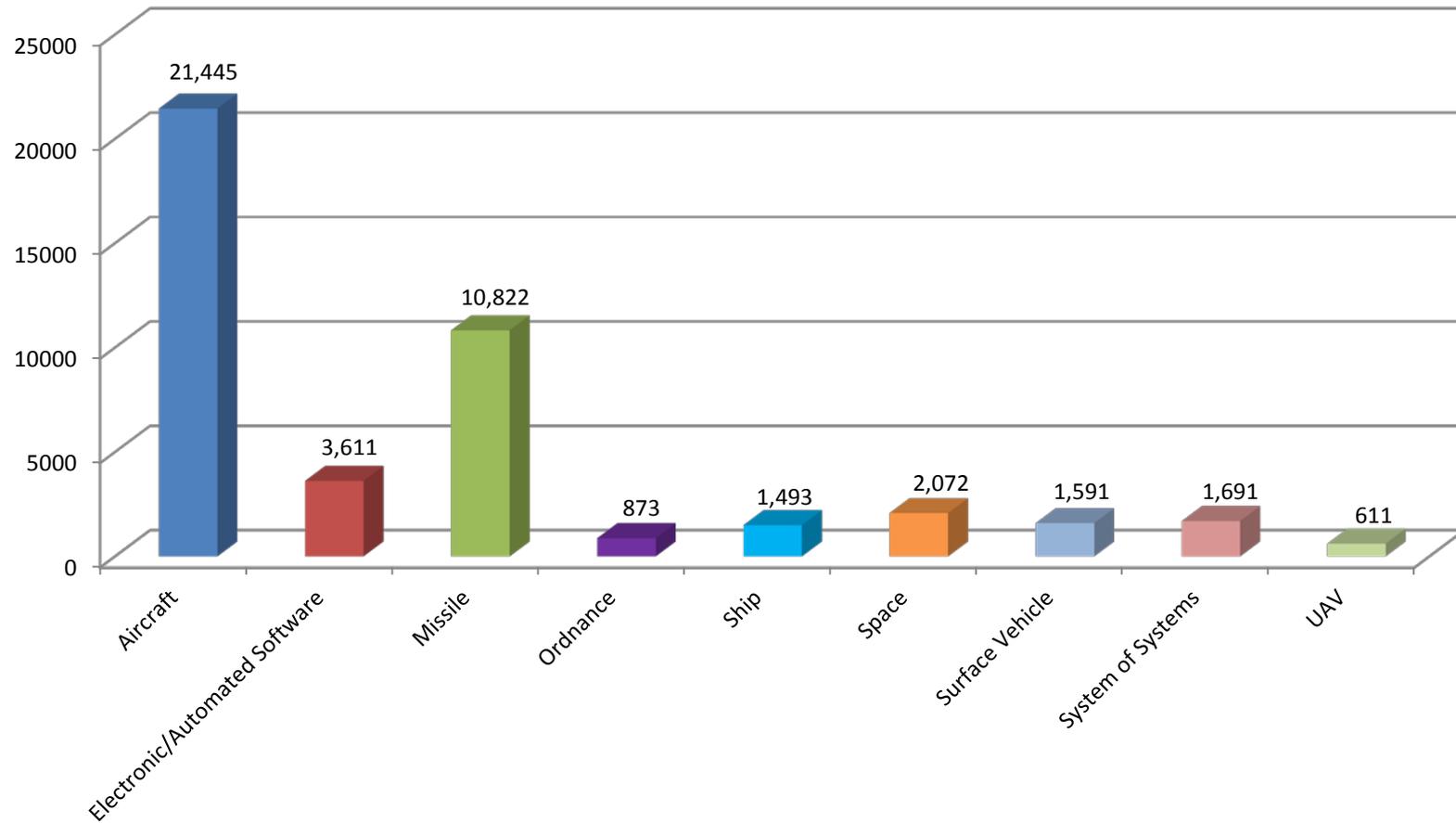




Documents in DACIMS

OSD CAPE

The DACIMS CSDR repository contains 44,209 documents as of February 2014, including CWBS dictionaries, 1921's, 1921-1's, 1921-2's, 1921-3's, and SRDR's on 400 current and legacy MDAP programs





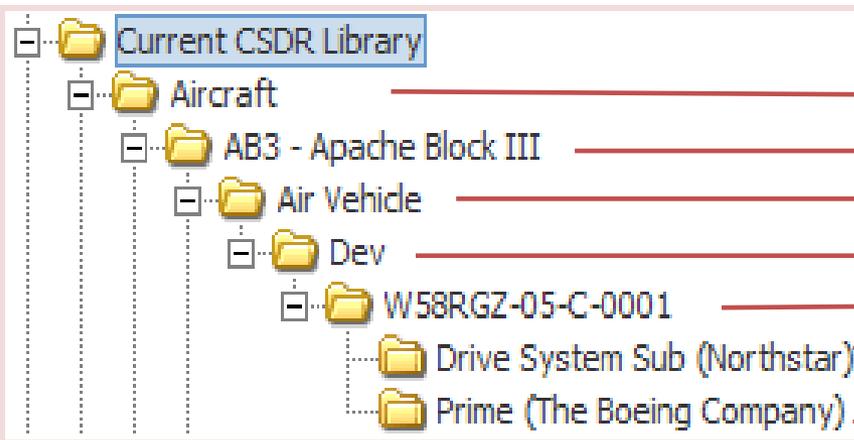
DACIMS Folder Structure

OSD CAPE

Click to get started →

Quick Links

- [Enter the Library](#)



MIL-HDBK-881A Appendix – Identified by the prime contractor's data reporting structure

Program Name – Designated MDAP name

Weapon System Type – Defines the type of product being delivered

Acquisition Phase – Development, Production, Sustainment

Prime Contract Number

Reporting Contractor(s) – Includes all prime and direct-reporting subcontractors

DACIMS File Folders

OSD CAPE



The Defense Automated Cost Information Management System (DACIMS)
Enhancing DoD Cost Analysis

For Official Use Only - When this document is printed, it needs to be stamped top and bottom with the appropriate classification.

DCARC Home Home Library Contact Us

Username: BWIL

Document Library

Folder Name: Ground Segment Sub (Lockheed Martin Corporation)

9 document(s) 50 Results per page Component Filter: (all)

Select	Details	Titles	Folder Path	Contract Task Information	Report As Of Date
<input type="checkbox"/>		1921_1921-1 (Front) (4/30/2006). AEHF MCS - F04701-02-C-0002 (Lockheed Martin)	Current CSDR Library\Space\AEHF - Advanced Extremely High Frequency (AEHF) Satellite Program\AEHF\Dev\F04701-02-C-0002\Ground Segment Sub (Lockheed Martin Corporation)\	MCS	04/30/2006
<input type="checkbox"/>		1921_1921-1 (Front) (4/30/2007). AEHF (Ground Segment)- F04701-02-C-0002 (Lockheed Martin)	Current CSDR Library\Space\AEHF - Advanced Extremely High Frequency (AEHF) Satellite Program\AEHF\Dev\F04701-02-C-0002\Ground Segment Sub (Lockheed Martin Corporation)\	Dev	04/30/2007
<input type="checkbox"/>		1921_1921-1 (Front) (4/30/2004). AEHF MCS - F04701-02-C-0002 (Lockheed Martin)	Current CSDR Library\Space\AEHF - Advanced Extremely High Frequency (AEHF) Satellite Program\AEHF\Dev\F04701-02-C-0002\Ground Segment Sub (Lockheed Martin Corporation)\	MCS	04/30/2004
<input type="checkbox"/>		1921_1921-1 (Front) (4/30/2005). AEHF MCS - F04701-02-C-0002 (Lockheed Martin)	Current CSDR Library\Space\AEHF - Advanced Extremely High Frequency (AEHF) Satellite Program\AEHF\Dev\F04701-02-C-0002\Ground Segment Sub (Lockheed Martin Corporation)\	MCS	04/30/2005

Document Library Tree:

- Current 1921-3 Data
- Current CSDR Library
 - Aircraft
 - Electronic/Automated Software
 - Missile
 - Ordnance
 - Ship
 - Space
 - AEHF - Advanced Extremely High Frequency (AEHF) Satellite
 - AEHF
 - Dev
 - F04701-02-C-0002
 - Ground Segment Sub (Lockheed Martin Corporation)
 - Payload Sub (Northrop Grumman Corporation)
 - Prime (Lockheed Martin Corporation)
 - EELV - Evolved Expendable Launch Vehicle
 - GPS OCX - Global Positioning Satellite Next Generation Cont
 - GPS-III A - Global Positioning Satellite III
 - MUOS - Mobile User Objective System
 - NAVSTAR GPS - Global Positioning System
 - NPOESS - National Polar-Orbiting Operational Environmental
 - SBIRS HIGH - Space-Based Infrared System Program, High C
 - SBSS B10 - Space-Based Space Surveillance Block 10
 - TSAT - Transformational Satellite Communications System
 - WGS - Wideband Global SATCOM Program
 - Surface Vehicle
 - System of Systems
 - UAV
- Legacy Business Base Data
- Legacy CCDR Library
- MAIS Data Library
- Program Files
- SRDR Data Library

- Within the “Reporting Contractor” folder, each submission made to the DCARC is stored within a separate file folder
- Each file folder contains all reports for the submission (Contract Data Reporting Structure Dictionary, CCDR, or SRDR) and DCARC Acceptance Memo



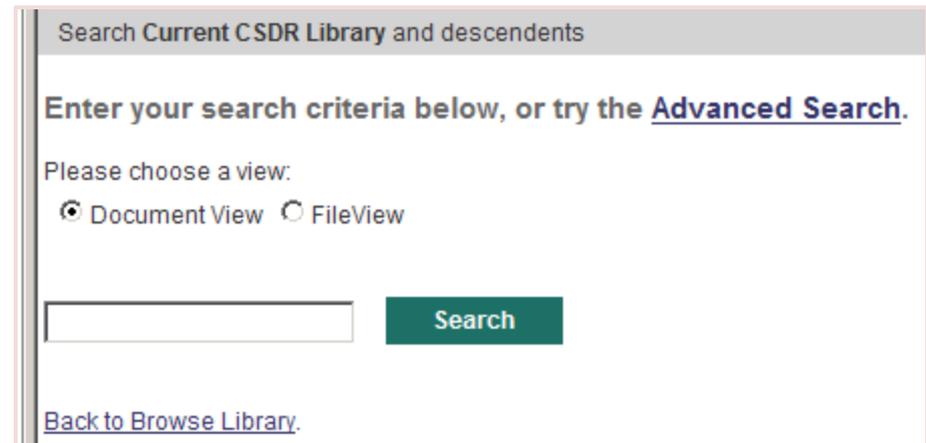
Searching DACIMS

OSD CAPE

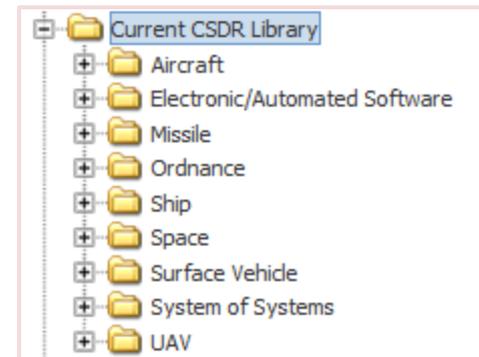
- Click for Search Options



- This window allows for basic searching. Clicking “Advanced Search” allows the user to search data across multiple fields



- The “Search” function will only search the selected folder in the tree structure, selecting “Current CSDR Library” will maximize search results



Basic Search: Document View

OSD CAPE

Please choose a view:

Document View FileView

Aircraft

[Back to Browse Library.](#)

- Selecting “Document View” when performing a basic search will return the search sorted by submission events
- By clicking on the  (File Folder) the user can access the files associated with the submission event (e.g., 1921, 1921-1, and acceptance memo)

Search Current CSDR Library and descendents

First 500 of 3527 document(s). Component Filter: (no filter when doc count exceeds 500)

1 2 3 4 5 6 7 8 9 10

Details	Title	Folder Path	Contract Task Information	Report As Of Date
	 (12/31/2010), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-06-C-0088 (General Electric Company)	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088 \Prime (General Electric Company)\	Lot 12 Complete - Final Report	12/31/2010
	 (3/31/2012), F-22 - RAPTOR Advanced Tactical Fighter - FA8611-08-C-2896 (Pratt & Whitney)	Current CSDR Library\Aircraft\F-22 - RAPTOR Advanced Tactical Fighter\F119-PW-100\Sustainment\FA8611-08-C-2896 \Prime (Pratt & Whitney)\	Fifth Interim Report	03/31/2012
	 (9/13/2011), P-8A - Poseidon Program - N00019-09-C-0022 (The Boeing Company)	Current CSDR Library\Aircraft\P-8A - Poseidon Program\P-8A\Prod\N00019-09-C-0022\Prime (The Boeing Company)\	Revised CWBS	08/17/2011



Basic Search: File View

OSD CAPE

Please choose a view:

 Document View FileView

Aircraft

Search

[Back to Browse Library.](#)

- Selecting “File View” when performing a basic search, will return the search sorted by individual files which can be downloaded by clicking on the file icon under “Files”
- By clicking on the  (File Folder), the user can access the entire submission and its associated documents (e.g., 1921, 1921-1, and acceptance memo)

Modify Search		Cancel Search		Download to Excel		
File(s) from the 7 document(s).		50 Results per page	Component Filter: (all)			
Details	Title	Type	Files	Folder Path	Contract Task Information	Report As Of Date
	 (12/31/2010), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-06-C-0088 (General Electric Company)	1921	 Lot 12 1921 For DCARC Upload Rev 1.xls	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088\Prime (General Electric Company)	Lot 12 Complete - Final Report	12/31/2010
	 (12/31/2010), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-06-C-0088 (General Electric Company)	1921-1	 Lot 12 1921-1 WBS 1.1.1.3 For DCARC Upload Rev 1 Date fix.xls	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088\Prime (General Electric Company)	Lot 12 Complete - Final Report	12/31/2010
	 (12/31/2010), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-06-C-0088 (General Electric Company)	Validation Memo	 20110802 FA18EF_VALID CDR_PROD_GE_N00019-06-C-0088_Sub#3_Lt12_Cmplt-Fnl Rpt_ACCEPTED_12-31-10.pdf	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088\Prime (General Electric Company)	Lot 12 Complete - Final Report	12/31/2010
	 1921_1921-1 (Front) (12/31/2008), F/A-18-Lot 11 Final - N00019-06-C-0088 (General Electric)	Validation Memo	 20090508 FA18 EF_VALID CDR_PROD_GE_N00019-06-C-0088_N-04-E-C7_Sub#2_Lt11_Cmplt-Fnl Rpt_ACCEPTED_12-31-08.pdf	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088\Prime (General Electric Company)	Lot 11 Final	12/31/2008
	 1921_1921-1 (Front) (12/31/2008), F/A-18-Lot 11 Final - N00019-06-C-0088 (General Electric)	1921	 20090507-3303 F_A-18(SuperHornet)_1921_N00019-06-C-0088_GeneralElectricCo_20090507.xls	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088\Prime (General Electric Company)	Lot 11 Final	12/31/2008
	 1921_1921-1 (12/31/2009), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-06-C-0088 (General Electric Company)	1921	 Lot 12 1921 Partial 11172010 Fix DCARC Upload.xls	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F414-GE-400\Prod\N00019-06-C-0088\Prime (General Electric Company)	Lot 12 Interim	12/31/2009



Advanced Search: Top Level

- Top level search details can be selected in any or all of the categories

Document Title

Start Upload Date

End Upload Date

File Name

File Type (All)

Categories (All)

Submission Component Type (All)

Sort By Document Title

Retrieve documents that match

All of the search criteria from every field.

Any of the search criteria from any field.

Choose the desired view:

Document View.

FileView.

- (All)
- Empty
- Other
- URL
- Word
- ACE
- ACZ
- Info
- Acrobat
- Web
- Text
- WebModel
- Project
- TIFF
- Visio
- PowerPoint
- XML
- CoStat
- ZIP
- Excel

- Not Assigned
- 1921
- 1921-1
- 1921-2
- 2630-1
- 2630-2
- 2630-3
- Reviewer File
- Other
- Validation Memo
- CWBS Dictionary
- SRDR Dictionary
- SRDR Initial Report
- SRDR Final Report
- CWBS Mapping
- 1921 Converted XML
- 1921-1 Converted XML
- Validation Results
- XML Conversion Results
- ContractPlan
- Submitter
- 1558-3
- 1921-3
- Legacy CCDR
- FPR
- CDRL
- RDT
- CCDR Multiple
- 1921-4

- Document Title
- Upload Date
- File Type



Advanced Search: Lower-level

OSD CAPE

Mil Handbook	<input type="text"/>
Program	<input type="text"/>
Model	<input type="text"/>
Dev/Prod	<input type="text"/>
Prime Contract Number	<input type="text"/>
Task (Reporting Contractor)	<input type="text"/>
Reporting Contractor	<input type="text"/>
Prime Contractor Name	<input type="text"/>
Prime Contractor Division	<input type="text"/>
Sub Contractor Name	<input type="text"/>
Sub Contractor Division	<input type="text"/>
Contractor Type	<input type="text"/>
Contract Type	<input type="text"/>
Contractor Location	<input type="text"/>
Submission Event	<input type="text"/>
Submission Number	<input type="text"/>
Submission Event Type	<input type="text"/>
Submission Type	<input type="text"/>
Report As Of Date	<input type="text"/>
Plan Number	<input type="text"/>
Weapon System Type	<input type="text"/>
Contract Task Information	<input type="text"/>
Service	<input type="text"/>
FY Funded	<input type="text"/>
ACAT	<input type="text"/>
Acquisition Phase	<input type="text"/>

- Lower-level detailed search fields contain many of the metadata fields found on the Cost Data Summary Report (1921), Functional Cost-Hour Reports (1921-1), and Progress Curve Reports (1921-2)
- Lower-level fields can be searched in conjunction with top-level fields

Advanced Search: Example

OSD CAPE

Search Aircraft and descendants

Enter search criteria below to retrieve information from this site on a specific subject.

Document Title

Start Upload Date

End Upload Date

File Name

File Type

Categories

Submission Component

Type

Sort By

Retrieve documents that match

All of the search criteria from every field.

Any of the search criteria from any field.

Choose the desired view:

Document View.

FileView.

[Back to Basic Search.](#)

[Back to Browse Library.](#)

Mil Handbook

Program

Model

DevProd

Prime Contract Number

Task (Reporting Contractor)

Reporting Contractor

Prime Contractor Name

Prime Contractor Division

Sub Contractor Name

Sub Contractor Division

Contractor Type

Contract Type

Contractor Location

Submission Event

Submission Number

Submission Event Type

Submission Type

Report As Of Date

Plan Number

Weapon System Type

- The user can perform a tailored search using any of the lower-level fields of detail
- Example search fields include: Start and End Upload Date, Submission Component Type, Dev/ Prod/ Sustainment, and Submission Event



Advanced Search: Results

OSD CAPE

- Using the Advanced Search to tailor the search requirements at the lowest level of detail, DACIMS returned 48 Cost Report submissions that fit the required criteria:

- Current 1921-3 Data
- Current CSDR Library
 - Aircraft
 - AB3 - Apache Block III
 - ACS - Aerial Common Sensor
 - ARH - Armed Reconnaissance
 - AWACS Upgrade - Airborne V
 - B-1 CMUP - B-1 LANCER Penet
 - B-2 DMS - Defensive Manage
 - B-2 EHF SATCOM AND COMP
 - B-2 RMP - B-2 Radar Moderni
 - B-2 Training System Contract
 - BLACK HAWK (UH-60L) - Utili
 - BLACK HAWK UPGRADE (UH-
 - C-130 AMP - C-130 Aircraft A
 - C-130J - HERCULES Cargo Ai
 - C-17A - GLOBEMASTER III A
 - C-5 AMP - C-5 Aircraft Avioni
 - C-5 RERP - C-5 Aircraft Relia
 - CH-47F - Cargo Helicopter. C
 - CH-53K - Heavy Lift Replac
 - Comanche - Reconnaissance
 - E-10 - Multi-Sensor Comm
 - E-2C REPRODUCTION - HAV
 - E-2D AHE - E-2D Advanced H
 - EA-18G - Airborne Electronic
 - EA-6B ICAP III - EA-6B Impr
 - F/A-18E/F - SUPER HORNET
 - F-22 - RAPTOR Advanced Ta
 - F-35 - Lightning II Joint Strike
 - H-1 UPGRADES (46W/46N) -
 - JCA - Joint Cargo Aircraft
 - JSTARS - Joint Surveillance T
 - KC-46A Tanker
 - LONGBOW APACHE - Airfram
 - LUH - Light Utility Helicopter
 - MH-60R - Multi-Mission Helic
 - MH-60S - Multi-Mission Comb.
 - P-8A - Poseidon Program
 - T-45TS - Undergraduate Jet
 - V-22 - OSPREY Joint Advance
 - VH 71 - Presidential Helicopte

Search Aircraft and descendants

48 document(s). 50 Results per page Component Filter: (all)

Details	Title	Folder Path	Contract Task Information	Report As Of Date
	1921 (12/31/2010), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-04-C-0014 (GKN Aerospace)	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F/A-18E; F/A-18F ProdW00019-04-C-0014\F/A-18E; F/A-18F Sub (GKN Aerospace)	FINAL REPORT	12/31/2010
	1921, 1921-1 (1/27/2012), EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft - N00019-09-C-0086 (Northrop Grumman Corporation)	Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA SystemProdW00019-09-C-0086\ALQ-218 (V)2 Sub Linthicum (Northrop Grumman Corporation)	Final Report Lot 33 (FRP 1)	01/27/2012
	1921, 1921-1 (1/27/2012), EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft - N00019-09-C-0086 (Northrop Grumman Corporation)	Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA SystemProdW00019-09-C-0086\AEA Sub Bethpage (Northrop Grumman Corporation)	Final Report Lot 33 (FRP 1)	01/27/2012
	1921, 1921-1 (1/31/2012), EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft - N/A (GOVT: N-10-A-C2) (Naval Surface Warfare Center)	Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\ALQ-99\ProdW/A (GOVT: N-10-A-C2)\Prime (Naval Surface Warfare Center)	Final Report Lot 33	01/31/2012
	1921, 1921-1 (1/31/2012), EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft - N00019-09-C-0086 (The Boeing Company)	Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA SystemProdW00019-09-C-0086\Prime (The Boeing Company)	Final Report Lot 33	01/31/2012
	1921, 1921-1 (1/31/2013), EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft - N00019-09-C-0086 (Northrop Grumman Corporation)	Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA SystemProdW00019-09-C-0086\AEA Sub Bethpage (Northrop Grumman Corporation)	Final Report Lot 34 (FRP 2)	01/31/2013
	1921, 1921-1 (1/31/2013), EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft - N00019-09-C-0086 (The Boeing Company)	Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA SystemProdW00019-09-C-0086\Prime (The Boeing Company)	Final Report Lot 34	01/31/2013
	1921, 1921-1 (10/30/2012), C-5 AMP - C-5 Aircraft Avionics Modernization Program - F33657-98-C-0006 (Lockheed Martin Corporation)	Current CSDR Library\Aircraft\C-5 AMP - C-5 Aircraft Avionics Modernization Program\C-5 AMP\ProdF33657-98-C-0006\Prime (Lockheed Martin Corporation)	Lot 8 Completion - Lot 8 FINAL - after delivery of	01/27/2013
	1921, 1921-1 (10/31/2012), F-35 - Lightning II Joint Strike Fighter (JSF) Program F-35A; F-35B; F-35C ProdW00019-07-C-0097 (Lockheed Martin Corporation)	Current CSDR Library\Aircraft\F-35 - Lightning II Joint Strike Fighter (JSF) Program\F-35A; F-35B; F-35C\ProdW00019-07-C-0097 (Lockheed Martin Corporation)	EO/IR Targeting System (EOTS) Supplier Final Repor	10/28/2012



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- Once the Search has been performed, the user has the option to export a summary of the search results to an Excel file:

Modify Search

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Logical Path	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Document ID
Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F/A-18E; F/A-18F\Prod\N00019-04-C-0014\F/A-18E; F/A-18F Sub (GKN Aerospace)	Current CSDR Library	Aircraft	F/A-18E/F - SUPER HORNET Naval Strike Fighter	F/A-18E; F/A-18F	Prod	N00019-04-C-0014	F/A-18E; F/A-18F Sub (GKN Aerospace)	fedfba1-682e-4304-adc4-8457b1a6e1e
Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA System\Prod\N00019-09-C-0086\ALQ-218 (V)2 Sub Linthicum (Northrop Grumman Corporation)	Current CSDR Library	Aircraft	EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft	AEA System	Prod	N00019-09-C-0086	ALQ-218 (V)2 Sub Linthicum (Northrop Grumman Corporation)	d4aa69f3-e32a-4eb2-bd10-075bb0738fcd
Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA System\Prod\N00019-09-C-0086\AEA Sub Bethpage (Northrop Grumman Corporation)	Current CSDR Library	Aircraft	EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft	AEA System	Prod	N00019-09-C-0086	AEA Sub Bethpage (Northrop Grumman Corporation)	d259e346-8e37-4cb1-92df-ff0771d33dc7
Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\ALQ-99\Prod\N/A (GOVT: N-10-A-C2)\Prime (Naval Surface Warfare Center)	Current CSDR Library	Aircraft	EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft	ALQ-99	Prod	N/A (GOVT: N-10-A-C2)	Prime (Naval Surface Warfare Center)	34b6f4eb-ee07-4432-a37e-83318856df53
Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA System\Prod\N00019-09-C-0086\Prime (The Boeing Company)	Current CSDR Library	Aircraft	EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft	AEA System	Prod	N00019-09-C-0086	Prime (The Boeing Company)	16895f2d-1aac-4167-9855-640d3b7b120a
Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA System\Prod\N00019-09-C-0086\AEA Sub Bethpage (Northrop Grumman Corporation)	Current CSDR Library	Aircraft	EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft	AEA System	Prod	N00019-09-C-0086	AEA Sub Bethpage (Northrop Grumman Corporation)	e1a440a2-fa3e-4879-ab25-151d97d475d9
Current CSDR Library\Aircraft\EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft\AEA System\Prod\N00019-09-C-0086\Prime (The Boeing Company)	Current CSDR Library	Aircraft	EA-18G - Airborne Electronic Attack variant of the F/A-18 aircraft	AEA System	Prod	N00019-09-C-0086	Prime (The Boeing Company)	508d3621-9827-42b1-8989-5a065daa0e92
Current CSDR Library\Aircraft\C-5 AMP - C-5 Aircraft Avionics Modernization Program\C-5 AMP\Prod\F33657-98-C-0006\Prime (Lockheed Martin Corporation)	Current CSDR Library	Aircraft	C-5 AMP - C-5 Aircraft Avionics Modernization Program	C-5 AMP	Prod	F33657-98-C-0006	Prime (Lockheed Martin Corporation)	36e212d9-4669-4a85-b014-d7857b80fb1d
Current CSDR Library\Aircraft\F-35 - Lightning II Joint Strike Fighter (JSF) Program\F-35A; F-35B; F-35C\Prod\N00019-07-C-0097\EOTS Sub (Lockheed Martin Corporation)	Current CSDR Library	Aircraft	F-35 - Lightning II Joint Strike Fighter (JSF) Program	F-35A; F-35B; F-35C	Prod	N00019-07-C-0097	EOTS Sub (Lockheed Martin Corporation)	ce5ffad7-583c-4bd7-8a95-67b934fb77e2
Current CSDR Library\Aircraft\F-22 - RAPTOR Advanced Tactical Fighter\F-22\Prod\FA8611-09-C-2900\CNI Sub (Northrop Grumman Corporation)	Current CSDR Library	Aircraft	F-22 - RAPTOR Advanced Tactical Fighter	F-22	Prod	FA8611-09-C-2900	CNI Sub (Northrop Grumman Corporation)	16214cd2-8ee4-4ce6-9ca9-3ef851700cbe
Current CSDR Library\Aircraft\C-17A - GLOBEMASTER III Advanced Cargo Aircraft Program\C-17A\Prod\FA8614-06-D-2006\Prime (The Boeing Company)	Current CSDR Library	Aircraft	C-17A - GLOBEMASTER III Advanced Cargo Aircraft Program	C-17A	Prod	FA8614-06-D-2006	Prime (The Boeing Company)	cc9e5c2b-d5cd-463a-9ca1-038d363a4494
Current CSDR Library\Aircraft\C-17A - GLOBEMASTER III Advanced Cargo Aircraft Program\C-17A\Prod\FA8614-06-D-2006\Sub (The Boeing Company)	Current CSDR Library	Aircraft	C-17A - GLOBEMASTER III Advanced Cargo Aircraft Program	C-17A	Prod	FA8614-06-D-2006	Sub (The Boeing Company)	eaed9b3-e0c4-4d6e-ac4b-60e8de31dea3
Current CSDR Library\Aircraft\MH-60S - Multi	Current CSDR Library	Aircraft	MH-60S - Multi-Mission Combat Support	MH-60S	Prod	W58RGZ-08-C-0003	MH-60S Sub (GKN Aerospace)	58610c8d-31aa-4451-8dc3-9ea82f2fde5



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- To open a submission, click on the  (Details) or  (File Folder), to access the associated Cost Data Summary Report (1921), Functional Cost-Hour Reports (1921-1), and Validation Memo:



[1921,1921-1 \(5/17/2011\), MH-60R - Multi-Mission Helicopter Upgrade - N00019-07-C-0013 \(Raytheon Company\)](#)

Attachments					
Select		Title	Date Uploaded	File Size (Bytes)	Submission Component Type
<input type="checkbox"/>		ALFS Lot V - 1921 Final Submission 3.xlsx	06/16/2011	23483	1921
<input type="checkbox"/>		ALFS Lot V - 1921-1 Final Submission 3.xlsx	06/16/2011	41626	1921-1
<input type="checkbox"/>		20110614 MH60R_VALID_CCDR_PROD_Raytheon_N00019-07-C-0013_N-05-D-C8_Sub#3_Lt5_Fnl_Rpt_ACCEPTED_4-3-11.pdf	06/16/2011	50757	Validation Memo

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System and Tools Summary

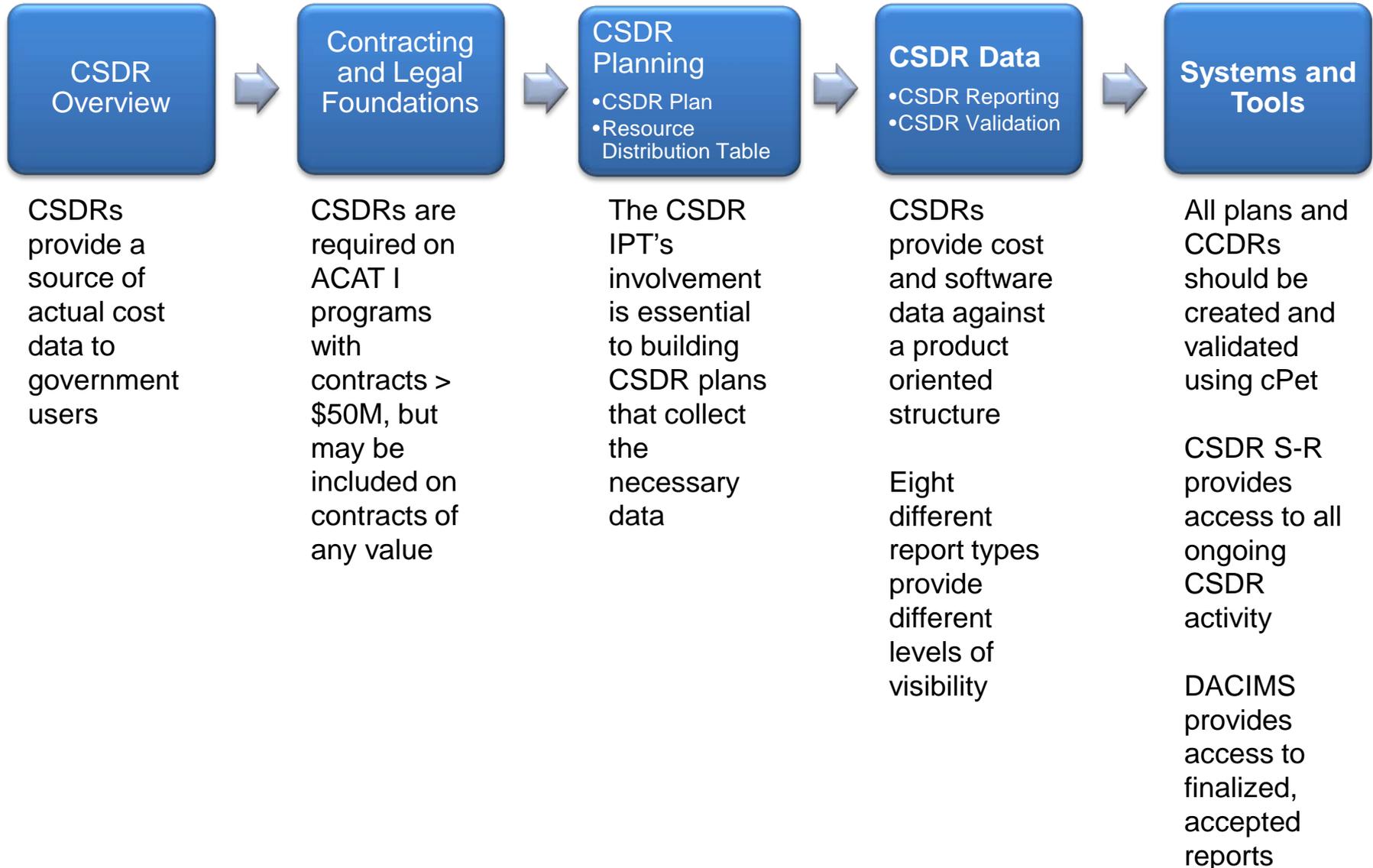
OSD CAPE

- **cPet** is used for preparing and validating reports before submission and for creating CSDR plans
- The **CSDR S-R** provides access to plans and ongoing submissions
- **DACIMS** provides access for government users to accepted submissions

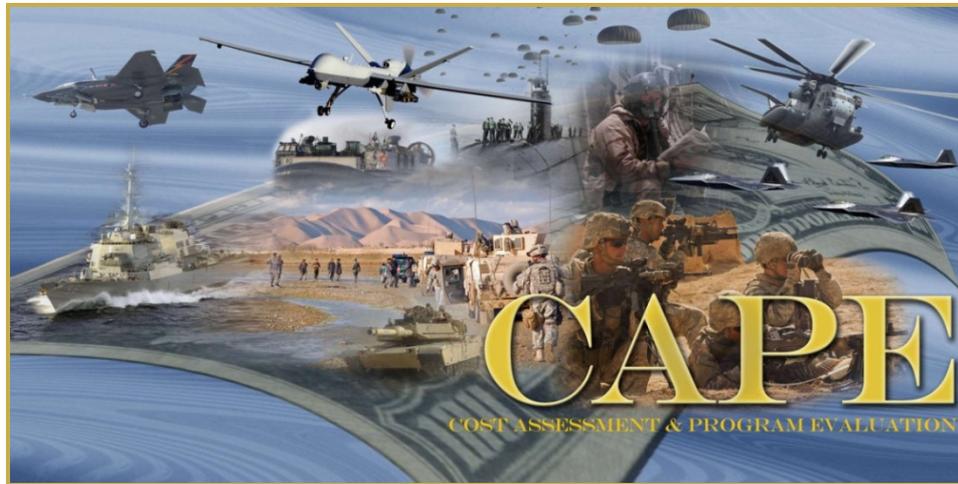


Summary

OSD CAPE



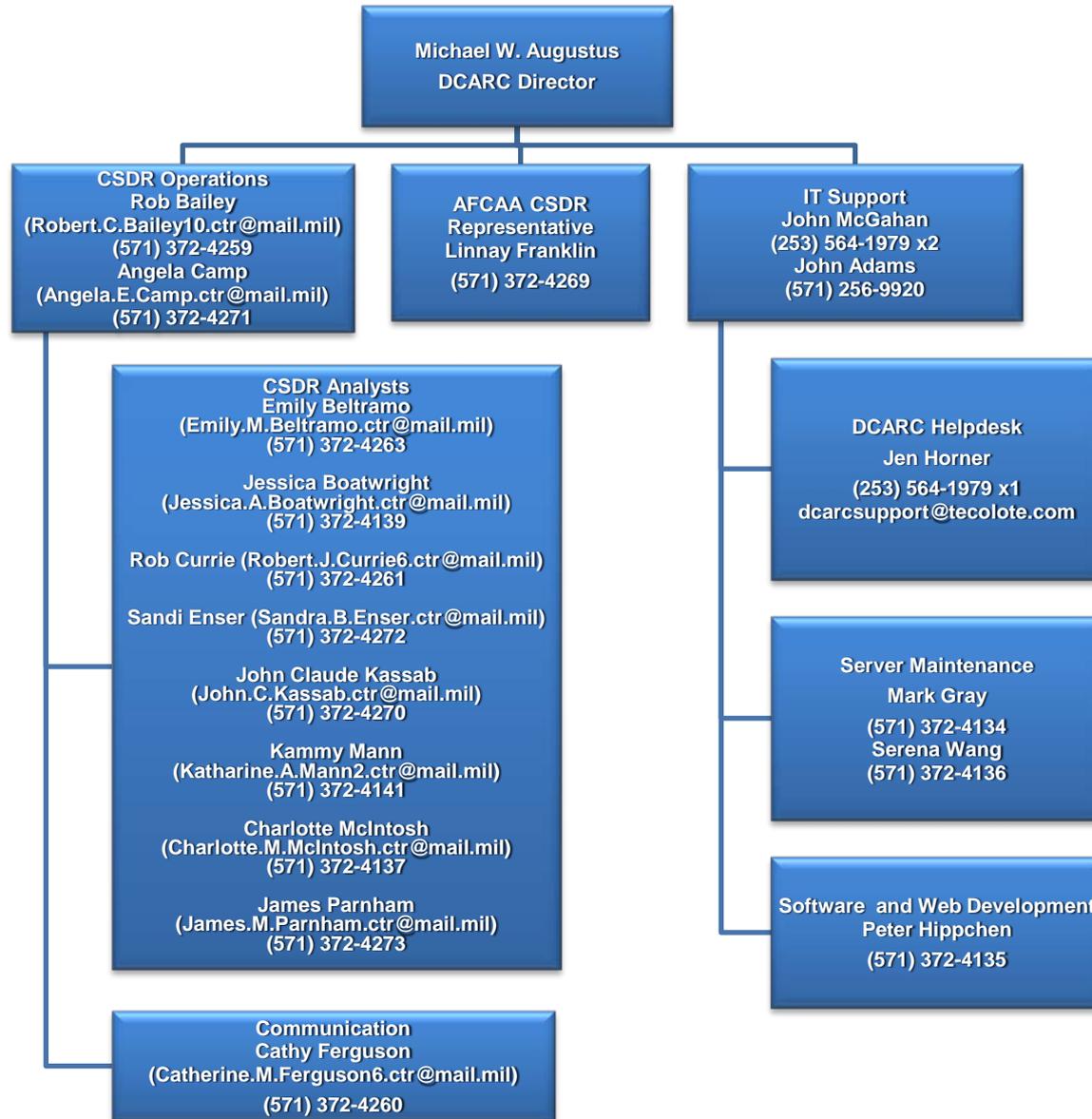
Questions?





DCARC Operations

OSD CAPE





Acronyms

OSD CAPE

ACAT	Acquisition Category	EAC	Estimate At Completion
AFCAA	Air Force Cost Analysis Agency	EMD	Engineering and Manufacturing Development
AIS	Automated Information System	FCHR	Functional Cost-Hour Report
CAPE	Cost Assessment and Program Evaluation	FMS	Foreign Military Sales
CAS	Cost Accounting Standard	FPR	Forward Pricing Rate
CBDR	Contractor Business Data Report	FRP	Full Rate Production
CCDR	Contractor Cost Data Report	G&A	General and Administrative
CDR	Critical Design Review	GFE	Government Furnished Equipment
CDRL	Contractor Data Requirements List	IBR	Integrated Baseline Review
CDSR	Cost Data Summary Report	IOT&E	Initial Operational Test and Evaluation\
CFE	Contractor Furnished Equipment	IWO	Interorganizational Work Order
CLIN	Contract Line Item Number	LRIP	Low Rate Initial Production
CLS	Contractor Logistics Support	MAIS	Major Automated Information System
cPet	CSDR Planning & Execution Tool	MDAP	Major Defense Acquisition Program
CSDR	Cost and Software Data Report	MIPR	Military Interdepartmental Purchase Request
CWBS	Contract Work Breakdown Structure	MIL-HDBK	Military Handbook
CWIPT	Cost Working Integrated Product Team	MIL-STD	Military Standard
DAB	Defense Acquisition Board	NCCA	Naval Center for Cost Analysis
DACIMS	Defense Automated Cost Information Management System	O&S	Operations and Support
DASA-CE	Deputy Assistant Secretary of the Army for Cost and Economics	OIPT	Overarching Integrated Product Team
DCAA	Defense Contract Audit Agency	OSD	Office of the Secretary of Defense
DCARC	Defense Cost and Resource Center	PCR	Progress Curve Report
DCMA	Defense Contract Management Agency	PDR	Preliminary Design Review
DDCA	Deputy Director of Cost Assessment	RDT	Resource Distribution Table
DFARS	Defense Federal Acquisition Regulation Supplement	RDT&E	Research, Development, Test and Evaluation
DID	Data Item Description	RFP	Request for Proposals
DO	Delivery Order	SDD	System Development and Demonstrations
DoD	Department of Defense	SDRL	Subcontractor Data Requirements List
		S-R	Submit Review
		SRDR	Software Resources Data Reporting
		TD	Technology Development



**PARCA
EVM**

PARCA EVM



PARCA EVM

AGENDA – PARCA EVM

- ▶ PARCA EVM
- ▶ EVM Data Requirements
- ▶ EVM-CR
- ▶ PARCA Performance Assessments



**PARCA
EVM**

PARCA Organization

Director, Performance Assessments and Root Cause Analyses (PARCA)

Mr. Gary R. Bliss

**Deputy Director for
Earned Value
Management**

Mr. Gordon M. Kranz

**Deputy Director for
Root Cause Analysis**

Dr. D. Mark Husband

**Deputy Director for
Performance
Assessments**

Mr. David S. Cadman

**Deputy Director for
Acquisition Policy
Analysis Center**

Dr. Philip S. Anton

**OSD EVM Policy
Holder**

**Nunn McCurdy
Breach Analysis**

**Program
Assessments and
DAES Selection**

Analysis Team

PARCA was brought into existence via the reforms called for by the Weapon Systems Acquisition Reform Act (WSARA) of 2009

As the central office for major defense authorization performance assessment, root cause analysis, and earned value management (EVM), PARCA advises AT&L on program execution status; and issues policies, procedures, and guidance to the Military Departments and the Defense Agencies to improve program management practices



PARCA EVM Organization

PARCA Earned Value Management Division Authorities

Policy and Guidance

Develop, publish, and maintain DOD policy and guidance on EVM

EVM Competency

Serve as DoD EVM Functional Lead to influence EV competency requirements; Coordinate with Defense Acquisition University (DAU)

EVM Data Requirements

Review and approve EVM data requirements for MDAP programs in coordination with Services and Defense Agencies

EVM Central Repository

Be responsible for the Earned Value Central Repository (CR) and maintain CR data alignment with the Acquisition Visibility framework; Report EVM data compliance, integrity, and quality to AT&L

Communications and Outreach

Resolve interpretive differences in EVM policy, practice, and requirements; Maintain communications with industry on EVM policy



PARCA is responsible and accountable for EVM performance, oversight, and governance across the Department



PARCA EVM

PARCA EVM Vision

Performance Assessments and Root Cause Analyses

Foster cross functional situational awareness, visibility, and accountability through integrated program management at all levels of the acquisition community



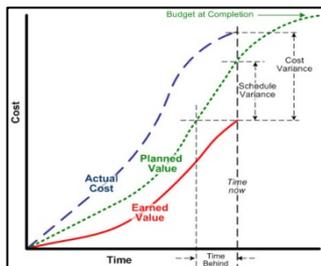
► *Guiding Principles*

- Increase the quality and utility of EVM data
- Increase the use of EVM across the acquisition chain
- Improve acquisition professionals ability to utilize EVM
- Reduce Contractor's administrative burden of inefficient use of EVM
- Ensure constructive 2-way communication between DoD and Industry
- EVMS is perceived by all stakeholders to be cost effective

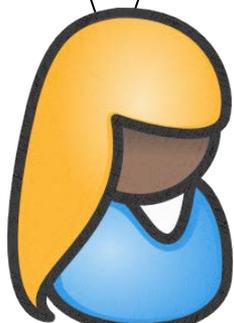


PARCA
EVM

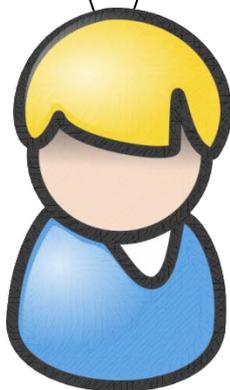
PMO - EVM Integration



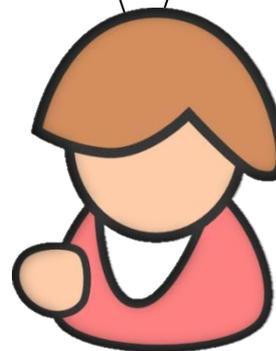
Contracts



System
Engineering



EVM Analyst



Business/Finance



Program
Manager



**PARCA
EVM**

PARCA EVM Policy, Data Requirements and Reporting Training



PARCA
EVM

AGENDA – EVM Policy & Data Requirements

- ▶ EVM Data Requirements
- ▶ IPMR
 - Format Content
 - Tailoring
- ▶ XML



**PARCA
EVM**

EVM POLICY & DATA REQUIREMENTS

APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED: 14-S-1674, MAY 21, 2014.



PARCA
EVM

EVM

Earned Value Management (EVM) is an inherent part of the acquisition program management value chain and provides Program Managers accurate and timely insight into cost, schedule and performance of products, systems, and services programs

▶ Vision

- All programs need program management, even if they don't use a full EVM implementation
- EVM is a core competency across all career areas
- EVM should provide performance status divorced from resources consumed



PARCA EVM

Why Use EVM?

► Benefits

- Integrated technical, cost, and schedule status
- Visibility into drivers of performance with early warning indicators
- Objective information for proactive decision making and risk management
- Ability to forecast performance and develop corrective action plans
- Tailorable to needs and stage of a program

EVM supports all disciplines but does not replace existing measures such as TPM's, risk, etc.



PARCA EVM

DoD EVM Policy Strategy

- ▶ Facilitate a common understanding and interpretation of EVM/EVMS policy and support the reduction of burden of EV across the enterprise
- ▶ Increase earned value's constructive attributes for the DoD firms managing acquisition programs by reducing the economic burden of inefficient implementation of EVM
- ▶ Provide EVM application direction that allows for effective EVM implementation and tailored schedule and cost reporting by the prime contractors
- ▶ Provide a “one voice” approach to all EVM and EVMS decisions by the Department



EVM Policy and Better Buying Power 2.0

- ▶ EVM Policy Strategy supports BBP 2.0 Objectives
 - Achieve Affordable Programs
 - Clarify EVM policy to reduce administrative and economic burden of the implementation of EVM
 - Leverage tailored EVM reporting to gain insight into program performance in support of decision making
 - Control Costs Throughout the Product Lifecycle
 - Establish policy and provide guidance to ensure proper application of EVM based on program work scope, risk, size, and duration
 - Provide guidance to ensure consistent review and use of contractor data in Government oversight



DFARS Updates

- ▶ Items in review or in process for DFARS Cases
 1. Work scope should be considered as the primary determining factor in the application of EVM practices and an EVMS
 - Contract type and Contract value still important
 2. Thresholds for the applicability of EVM
 3. Clarification of deviation / waiver
 - 5000.02: States that “Program Managers will employ EVM unless its use is waived by the CAE“
 - 5000.02 does not currently remove requirement for DFARS deviation

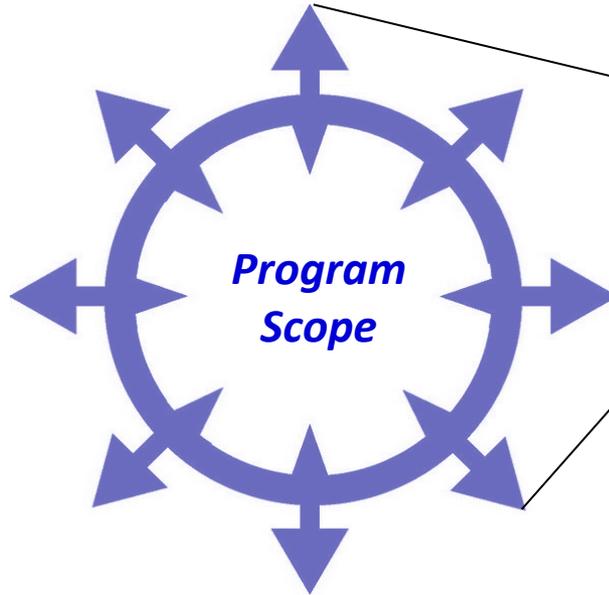


Current EVM Policy Requirements

- ▶ DFARS Policy
 - **Earned Value Management System (EVMS); DFARS 234.201**
 - Cost and Incentive Contracts \$20,000,000 or more, the *EVMS shall comply with the guidelines in ANSI/EIA-748* (no validated system required)
 - Cost and Incentive Contracts \$50,000,000 or more, the contractor shall have an *EVMS that has been determined by the cognizant Federal agency to be in compliance with the guidelines in ANSI/EIA-748* (validated system required or system ready to be validated by DCMA required)
 - ▶ To apply the DFARS policy on contract, include the following clauses
 - **DFARS 252.234-7001 Notice of Earned Value Management System**
 - Requirement to have EVM/EVMS
 - **DFARS 252.234-7002 Earned Value Management System**
 - Specific requirements for the EVM System



Determining EVM Applicability



Would the nature of the work scope and inherent risk benefit from EVM in program management



Are there measurable efforts that can be scheduled and tracked separate from resources expended



How do the contract type, contract value and period of performance relate to DFARS requirements

Use IPMR DID as basis to tailor for any contract type



EVM Reporting Requirements

- ▶ **Integrated Program Management Report (IPMR) Data Item Description (DID) and IPMR Guide**
 - Required when EVM is required
 - Cost and Schedule reporting is tailorable when full EVM is not required or when an IMS is required only
- ▶ **Contract Funds Status Report (CFSR) DID**
 - Required when EVM is required, but also when Funding status is needed outside of EVM
- ▶ **MIL-STD-881C**
 - Provides initial structure for WBS development for IPMR Format 1
- ▶ **EVM Central Repository (EVM-CR)**
 - Required for ACAT I programs with an EVM requirement on contract
 - Provides controlled access and common storage



**PARCA
EVM**

IPMR



PARCA EVM

Getting Started

Putting the "Integrated" in IPMR

Cost
Reporting
(CPR)

DATA ITEM DESCRIPTION

TITLE: CONTRACT PERFORMANCE REPORT (CPR)
NUMBER: DI-MGMT-81466A **APPROVAL DATE:** 20050330
AMSC NUMBER: D7549 **LIMITATION:**
DTIC APPLICABLE: **GIDEP APPLICABLE:**
PREPARING ACTIVITY: OUSD(AT&L)ARA/AM(SO)

APPLICABLE FORMS: DD Forms are available and shall be used to submit required formats as follows:

CPR Format	DD Form Number	Sample Format No.
Work Breakdown Structure	2734/1	1
Organizational Categories	2734/2	2
Baseline	2734/3	3
Staffing	2734/4	4
Explanations and Problem Analyses	2734/5	5



DATA ITEM DESCRIPTION

TITLE: INTEGRATED MASTER SCHEDULE (IMS)
NUMBER: DI-MGMT-81650 **APPROVAL DATE:** 20050330
AMSC NUMBER: D7544 **LIMITATION:**
DTIC APPLICABLE: **GIDEP APPLICABLE:**
PREPARING ACTIVITY: OUSD(AT&L)ARA/AM(SO)

APPLICABLE FORMS: None

USE/RELATIONSHIP: The Integrated Master Schedule (IMS) is an integrated schedule containing the networked, detailed tasks necessary to ensure successful program execution. The IMS is vertically traceable to the Integrated Master Plan (IMP) (if applicable), the Contract Work Breakdown Structure (CWBS), and the Statement of Work (SOW). The IMS shall be used to verify attainability of contract objectives, to evaluate progress toward meeting program objectives, and to integrate the program schedule activities with all related components. This DID is applicable to development, major modification, and low rate initial production efforts; it is not typically used for other program activities.

Schedule
Reporting
(IMS)

DATA ITEM DESCRIPTION

Title: Integrated Program Management Report (IPMR)
Number: DI-MGMT-81861 **Approval Date:** 20120620
AMSC Number: D7549 **Limitation:**
DTIC Applicable: No **GIDEP Applicable:** No
Preparing Activity: OUSD (AT&L) PARCA
Applicable Forms: Forms are available to be used to submit required formats as follows:

<u>IPMR Format</u>	<u>Form Number</u>	<u>Format No.</u>
Work Breakdown Structure	2734/1	1
Organizational Categories	2734/2	2
Baseline	2734/3	3
Staffing	2734/4	4
Explanations and Problem Analyses	N/A	5
Integrated Master Schedule	N/A	6
Electronic History and Forecast File	N/A	7



PARCA EVM

Getting Started Finding the IPMR DID

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Img	Document ID	Status	FSC/ Area	Doc Date	Title
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PARCA EVM

Getting Started IPMR Date & Application

- ▶ IPMR DID was officially released **19 June 2012**
- ▶ Effective date of **01 July 2012**
 - Applies to all EVM-applicable contracts awarded based on solicitations or requests for proposal issued after the above date
- ▶ Supersedes the prior IMS and CPR DIDs
- ▶ Generally the full IPMR is applicable for cost and incentive contracts greater than \$20M.
 - Tailoring options follow later in this brief



PARCA EVM

Getting Started

IPMR Value to Government

- ▶ The IPMR's primary value to the Government is its utility in reflecting current contract status (cost, schedule, and technical) and projecting future contract performance

- ▶ Allows for:
 - **Integration of cost and schedule** performance data with objective technical measures of performance

 - Provides **flexibility in tailoring** to provide the right type and volume of information for the various contract types and situations

 - Used by the DoD component staff, including program managers, engineers, cost estimators, and financial management personnel as a basis for **communicating performance status** with the contractor and OSD leadership



What data to expect

Cost and Schedule

Task Name	Start	Finish	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
1 - Program Event	Wed 8/29/07	Fri 9/7/07																	
2 (PE) Program Event Completed		Fri 9/7/07																	
3 - Significant Accomplishment 1	Wed 8/29/07	Fri 9/7/07																	
4 (SA) Significant Accomplishment Completed 2		Fri 9/7/07																	
5 - Accomplishment Criteria 1.1	Tue 9/4/07	Fri 9/7/07																	
6 (AC) Accomplishment Criteria Completed		Fri 9/7/07																	
7 Task 1.1.1	Tue 9/4/07	Tue 9/4/07																	
8 Task 1.1.2	Wed 9/5/07	Wed 9/5/07																	
9 Task 1.1.3	Thu 9/6/07	Thu 9/6/07																	
10 Task 1.1.4	Fri 9/7/07	Fri 9/7/07																	
11 - Accomplishment Criteria 1.2	Wed 8/29/07	Mon 9/3/07																	
12 (AC) Accomplishment Criteria Completed		Mon 9/3/07																	
13 Task 1.2.1	Wed 8/29/07	Wed 8/29/07																	
14 Task 1.2.2	Thu 8/30/07	Thu 8/30/07																	
15 Task 1.2.3	Fri 8/31/07	Fri 8/31/07																	
16 Task 1.2.4	Mon 9/3/07	Mon 9/3/07																	

► Cost Reporting

- WBS EVM data
- OBS EVM data
- Changes to baseline
- Staffing plan
- Variance analysis
- Historical actuals & time phased ETC

► Schedule Reporting

- Integrated Master Schedule
 - Critical Path / Driving Path
 - Milestones
- Schedule Risk Analysis (SRA)
- Schedule analysis

Cost and Schedule data required in DoD approved XML format (excluding variance analysis)



What data to expect Get the WBS Right

Cost data reporting level is defined as:

“The WBS level established by tailoring the appropriate MIL STD 881 (current version at time of contract award) appendix by the Program Office and approved by an office(s) designated by OSD policy.”

→ *Important for variance analysis*

Technical
- TPMs
- Specifications
- Design docs
- Performance char.

Risk & Risk Assessment
- Level of Detail
- Program Oversight level of detail

Earned Value Cost and Schedule Status

Schedule IMP / IMS

WBS



What data to expect

IPMR Data Item Description (DID)

- ▶ The IPMR contains data for measuring cost and schedule performance on Department of Defense (DoD) acquisition contracts.
- ▶ Its primary value is in reflecting current contract status and projecting future contract performance.
- **Format 1**
 - Defines cost and schedule performance data by product-oriented Work Breakdown Structure (WBS)
 - **Benefit:** Provides a snapshot of EVM performance at the detail and summary level
 - **Major Changes:** Link to MIL-STD-881C, no negative UB/MR/AUW, MR scope described, indirects Add/Non-Add flags



What data to expect

IPMR Data Item Description (DID)

■ Format 2

- Defines cost and schedule performance data by the contractor's organizational structure (e.g., OBS, Functional, or Integrated Product Team (IPT))
- **Benefit:** Enables analysis of EVM performance at organizational elements
- **Major Changes:** Structure not required to tie to Format 4 (staffing) structure

■ Format 3

- Defines time phased changes to the Performance Measurement Baseline (PMB)
- Provides estimated & original contract completion dates
- **Benefit:** Enables analysis to track shifts in PMB
- **Major Changes:** Un-gray of monthly changes (only “format” change in all the IPMR Formats 1-4)



What data to expect IPMR Data Item Description (DID)

Format 3 Continued

6. PERFORMANCE DATA															
ITEM	BCWS CUMULATIVE TO DATE (2)	BCWS FOR REPORT PERIOD (3)	BUDGETED COST FOR WORK SCHEDULED (BCWS) (Non-Cumulative)											UNDIS-TRIBUTED BUDGET (15)	TOTAL BUDGET (16)
			SIX MONTH FORECAST						ENTER SPECIFIED PERIODS						
			+1 (4)	+2 (5)	+3 (6)	+4 (7)	+5 (8)	+6 (9)	(10)	(11)	(12)	(13)	(14)		
a. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)															
b. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD															
c. PERFORMANCE MEASUREMENT BASELINE (End of Period)															
7. MANAGEMENT RESERVE															

Format 4

- Defines staffing forecasts through program lifecycle
- **Benefit:** Enables tracking and analysis to determine accuracy of labor estimates
- **Major Changes:** Staffing information can be in hours or EQH; de-link from Format 2



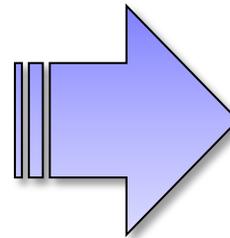
IPMR Data Item Description (DID) cont.

■ Format 5

- Narrative report used to provide variance analysis of data contained in Formats 1-4 and 6 and corrective actions with links between cost and schedule information
- **Benefit:** Provides PM with focused information to make informed decisions
- **Major Changes:** Top 15 WBS approach to Variance Analysis; all Formats have analysis requirement



Just getting all variances can lead to piles of unused information and/or information that's too hard to wade through

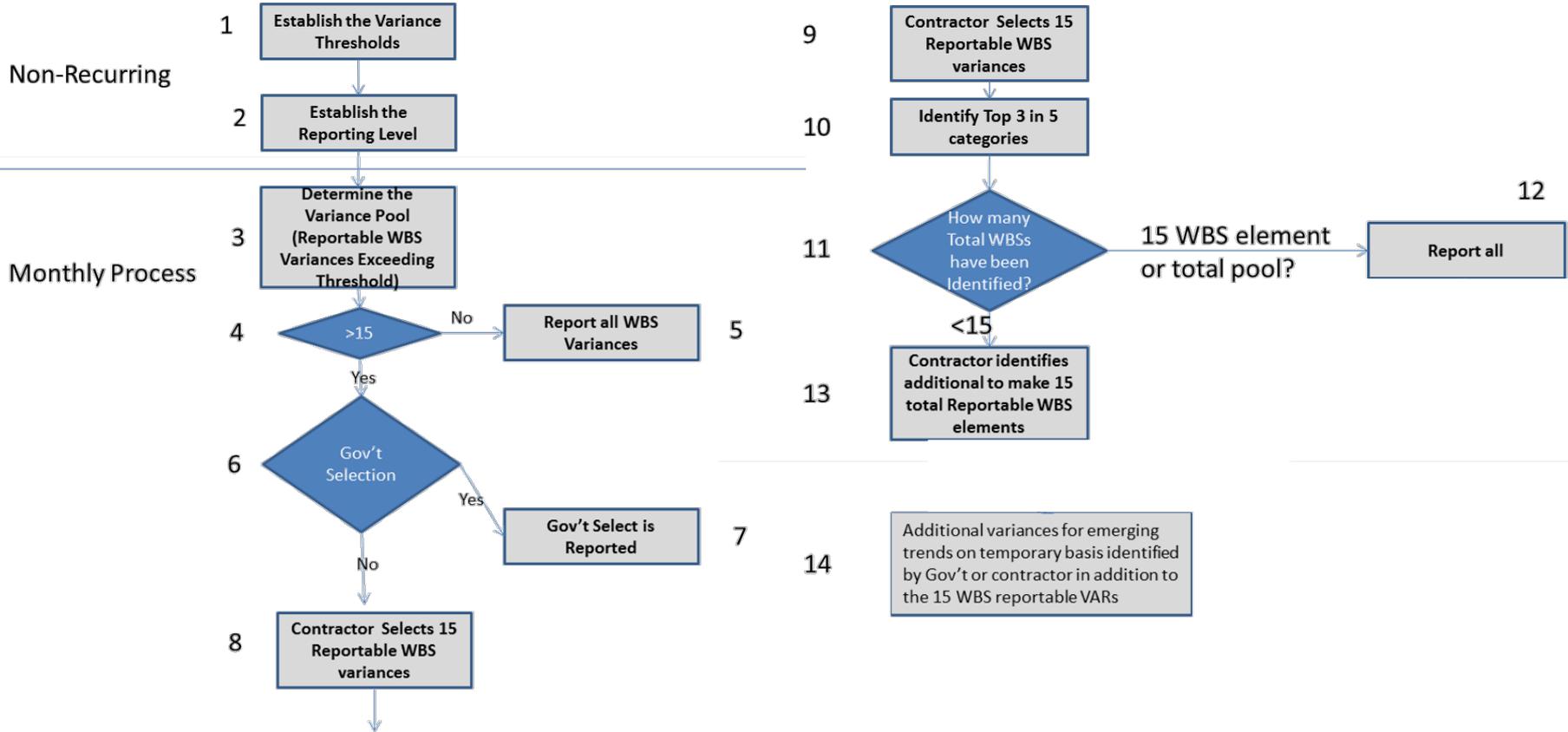


New language intended to reduce burden and focus on the significant risks to the program



PARCA EVM

What data to expect 15 Variances; 14 Steps





What data to expect IPMR Data Item Description (DID) cont.

■ Format 6

- Defines and contains the contractor's Integrated Master Schedule (IMS)
- Previously was in a separate DID
- **Benefit:** Enables analysis to predict milestone and program completion dates
- **Major Changes:**
 - Defined minimum level of subcontractor integration in Prime IMS
 - Defined Schedule Margin (allowed before program events and in critical path)& SVTs
 - Required disclosing of justification for Leads, Lags and most constraints.
 - Defined minimum fields in IMS
 - Expanded when SRA is required and how it is reported
 - Consistency with Format 1 Addressed; included "The WBS numbering system in the IMS must be consistent with the Format 1 structure."
 - Defined Critical & Driving Paths (tasks with "0" or negative total float are not by default the critical path)
 - XML requirement (along with native format)



IPMR Data Item Description (DID) cont.

- **Format 7 (New)**

- Defines the annual reporting of time-phased historical and forecast cost submission
- **Benefit:** Enhances Government analysis beyond information in Format 1 or 5
- **Major Changes:** New Format; historical section similar to the existing EVM-CR requirement for an annual backup file





What data to expect Subcontractor Data

▶ *Overall:*

- Not required to be delivered to the Government
- Government may require separate submission(s) of subcontractor IPMRs; submissions would be required per the IPMR instructions in the CDRL with the Prime

▶ *Cost info:*

- If MR includes the contractor and subcontractor amounts together, the breakout shall be discussed in Format 5
- OBS data shall identify each major subcontractor as defined in the contract
- Contractors may elect to attach subcontractor(s) Format 5 and cross reference the analysis in the Format 5 to the Government

▶ *Schedule info:*

- Subcontractor discrete work shall be incorporated as tasks within the prime IMS at a level necessary for Government insight and to develop a realistic critical path



PARCA EVM

What data to expect Friends of the IPMR DID

- ▶ IPMR Guide
- ▶ OSD and Service IPMR CDRL Templates
- ▶ IPMR Release Memo
- ▶ MIL-STD-881c
- ▶ Earned Value Management Central Repository (EVM-CR)
- ▶ Service/Agency CDRL Templates & Guides
- ▶ PARCA Issue & Interpretation Resolution



EVM EARNED VALUE MANAGEMENT

nterpretation and Issue Resolution Submitter Contact Information

Organization Phone Number

Last Name Job Title Industry/Government

Website: <http://www.acq.osd.mil/evm/ir/index.shtml>



PARCA EVM

What data to expect Read the Guide



IPMR Implementation Guide

Considered to be a policy extension of the IPMR DID

Found on the PARCA EVM website

<http://www.acq.osd.mil/evm/docs/IPMR%20Implementation%20Guide.pdf>

► *Items specifically addressed/clarified:*

- Tailoring of the IPMR DID
- A UW
- Schedule Margin
- Reporting Level
- XML
- WBS
- IMS Relationships and Field Titles
- Schedule Risk Assessments



Customize your order
General IPMR Tailoring

- ▶ The risk inherent to the program should be the prime consideration for tailoring of the IPMR

- ▶ Basic contract size guidance:

Contracts \geq \$50M	IPMR DID Requirements
	IPMR DID all formats are required IPMR DID may not be tailored or redacted except as defined in the DID or this document without additional approvals (See section 1.3.3)
Contracts \geq \$20M but, $<$ \$50M	IPMR DID Requirements
	IPMR Formats 1, 5, 6, and 7 are required IPMR Formats 2, 3, 4 are optional
Contracts $<$ \$20M (At discretion of PM)	IPMR DID Requirements
	No Requirements Optional Application IPMR Formats 1 and 5 are recommended IPMR Format 6 may be recommended, see section 1.4.2



Customize your order

Notable IPMR Tailorable Items

1. **Formats 1 – 4**
 - a. **Cost and Schedule data delivery:** Default is 12 working days (WD); DID allows for as late as 17 WD where technical or other significant issues exist
 - b. **Alternate formats:** Formats 1-4 may be required in hours and/or human readable formats as optional items
 - c. **EVM-CR requirement:** Only for ACAT I programs with an EVM requirement on contract
 - d. **Format 3 significant baseline changes:** IPMR does not provide explanation of “significant;” must be evaluated by PMO and added to CDRL based on risk needs
 - e. **Format 3 Baseline change reporting period columns:** PMO can select breakout of timeframe in the columns outside the 6-month window



Customize your order

Notable IPMR Tailorable Items

1. **Formats 1 – 4 (continued)**
 - f. **Format 4 Staffing units:** Specify if staffing is in hours, equivalent heads, or total headcount
 - g. **Format 4 significant staffing changes:** IPMR does not provide explanation of “significant;” must be evaluated by PMO and added to CDRL based on risk needs
 - h. **Format 4 Staffing reporting period columns:** PMO can select breakout of timeframe in the columns outside the 6-month window
2. **Format 5**
 - a. **Format 5 Variance thresholds:** IPMR does not provide default thresholds; should be evaluated by PMO based on program scope and risk and added to CDRL



Customize your order

Notable IPMR Tailorable Items

3. Formats 6 & 7

- a. **Schedule Risk Assessment frequency:** SRAs only required to be delivered prior to IBR and OTB; PMO can chose additional deliveries or timing
 - b. **IMS reserve fields:** If PMO has specific special fields or flags needed in the schedule submission, they should be listed
 - c. **Format 7 delivery:** Annual requirement; select a timeframe that meets the PMO needs
 - d. **Level of WBS for Format 7:** Same as WBS (Format 1) level; can be down to the control account level
- ▶ Note, Services/Agencies may have additional or slightly different tailoring restrictions or requirements than those listed here



**PARCA
EVM**

XML



**PARCA
EVM**

How data is reported
Quick Test...

- ▶ How many of you know what this is?

UN/CEFACT XML

- ▶ Ok, so how many of you know what this is?





How data is reported

UN/CEFACT* XML & the IPMR

- ▶ UN/CEFACT XML is the current approved DoD XML standard
 - Provides means to exchange schedule, cost, and related auxiliary data in an industry recognized, standard, software independent format
- ▶ The IPMR data is required in UN/CEFACT XML
- ▶ “Human Readable” files not required
- ▶ Exceptions
 - Variance analysis is in contractor format
 - Additional schedule submission in native software format (ex., MS Project, Primavera, Artemis, Open Plan, etc,)

**United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT)*



XML

- ▶ IPMR replaced the existing ANSI X12 Electronic Data Interchange (EDI) transaction sets (806 and 839) with an XML equivalent
- ▶ XML: Extensible Markup Language (XML)
 - Defines a set of rules (language) for encoding documents to be read by software tools

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE recipe PUBLIC "-//Happy-Monkey//DTD RecipeBook//EN"
"http://www.happy-monkey.net/recipebook/recipebook.dtd">

<recipe>

  <title>Peanut-butter On A Spoon</title>

  <ingredientlist>
    <ingredient>Peanut-butter</ingredient>
  </ingredientlist>

  <preparation>
    Stick a spoon in a jar of peanut-butter,
    scoop and pull out a big glob of peanut-butter.
  </preparation>

</recipe>
```



**PARCA
EVM**

How data is reported

UN/CEFACT XML - Three Components

UN/CEFACT library of standard data components and **Base Schemas**

Minimal **Mandatory** data elements – used to validate structure of XML instance files



Data Exchange Instructions (DEI)
– detailed specifics on schema data content requirements

Specifies **Required or Optional** data elements - DID governs content **Restricts base schemas** Provides **business rules**



Result in XML instance files
generated from toolset of choice that can be imported into other toolsets of choice

Source data can be transformed into variety of data views



**PARCA
EVM**

How data is reported Format 1 and XML

<CostScheduleReportDocument>

<ProgressMonitoredContract>

<ReportedHierarchicalStructure>

<ProjectCost>

<ProgressMonitoredContract>

Calculated values not included
(SV, CV, VAC)

Unclassified
CLASSIFICATION (When filled in)

INTEGRATED PROGRAM MANAGEMENT REPORT FORMAT 1 - WORK BREAKDOWN STRUCTURE												DOLLARS IN: Thousands			PENDING UPDATE TO OMB No. 0704-0188 (Page 1 of 1)					
1. CONTRACTOR a. NAME Defense Contractor b. LOCATION (Address and ZIP code) 1234 Main Street Washington, DC 12345				2. CONTRACT a. NAME NEWTANK b. NUMBER 123456-AB-1-ABCD c. TYPE FPI				3. PROGRAM a. NAME NEWTANK b. PHASE RDT & E And Production c. EVMS ACCEPTANCE NO x YES (YYYYMMDD)				4. REPORT PERIOD a. FROM (CCYYMMDD) 20130101 b. TO (CCYYMMDD) 20130131								
5. CONTRACT DATA																				
a. QUANTITY PRD: 1 R&D: 2	b. NEGOTIATED COST \$20,796.2	c. EST COST AUTH UNPRICED WORK \$0.0		d. TARGET PROFIT/FEE \$0.0	e. TARGET PRICE \$22,459.9	f. ESTIMATED PRICE \$22,459.2	g. CONTRACT CEILING \$26,200.0	h. EST CONTRACT CEILING \$35,000.0	i. DATE OF OTBOTS (CCYYMMDD)											
6. ESTIMATED COST AT COMPLETION																				
		MANAGEMENT ESTIMATE AT COMPLETION (1)		CONTRACT BUDGET BASE (2)		VARIANCE (3)		7. AUTHORIZED CONTRACTOR REPRESENTATIVE												
a. BEST CASE \$20,000.0		b. WORST CASE \$25,000.0		c. MOST LIKELY \$23,000.0				a. NAME (Last, First, Middle Initial) Mr. Abraham Lincoln		b. TITLE President		c. SIGNATURE		d. DATE (CCYYMMDD) 20080215						
8. PERFORMANCE DATA																				
ITEM (1)	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION						
	BUDGETED COST SCHEDULED (2)	WORK PERFORMED (3)	ACTUAL COST WORK PERFORMED (4)	VARIANCE SCHEDULE (5) COST (6)		BUDGETED COST SCHEDULED (7)	WORK PERFORMED (8)	ACTUAL COST WORK PERFORMED (9)	VARIANCE SCHEDULE (10) COST (11)		COST VARIANCE (12)	SCHEDULE VARIANCE (13)	BUDGET (14)	BUDGETED (15)	ESTIMATED (16)	VARIANCE (17)				
a. WBS ELEMENT																				
2.0 - DESIGN	2	50.2	48.4	62.2	(1.8)	(13.8)	882.8	869.4	930.8	(13.2)	(61.2)			1,384.6	1,418.6	(34.0)				
3.0 - BUILD	2	1,272.4	1,148.0	1,289.4	(124.4)	(151.4)	4,808.2	4,424.4	4,782.0	(384.8)	(367.8)			14,805.4	14,815.4	(308.0)				
4.0 - MANAGE	2	58.0	59.4	61.8	1.4	(2.4)	133.8	135.0	142.8	1.2	(7.8)			755.6	761.8	(6.2)				
5.0 - TEST	2	12.6	11.8	27.4	(0.8)	(15.6)	88.8	82.2	110.0	(6.6)	(17.8)			127.0	143.0	(16.0)				
6.0 - VALIDATION	2	102.8	104.4	101.0	1.8	3.4	692.2	706.8	706.2	14.8	0.6			1,633.0	1,635.0	(2.0)				
f. COST OF MONEY	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0				
c. GEN & ADMINISTRATIVE	2	149.6	137.2	155.2	(12.4)	(18.0)	662.0	623.0	668.2	(39.0)	(45.2)			1,850.4	1,887.2	(36.8)				
d. UNDISTRIBUTED BUDGET	2													0.0	0.0	0.0				
e. SUBTOTAL (Performance Measurement Baseline)		1,645.4	1,508.2	1,707.0	(136.2)	(187.8)	7,278.6	6,850.8	7,349.8	(427.8)	(489.0)			20,357.0	20,761.0	(404.0)				
f. MANAGEMENT RESERVE	2													439.2						
g. TOTAL		1,645.4	1,508.2	1,707.0	(136.2)	(187.8)	7,278.6	6,850.8	7,349.8	(427.8)	(489.0)			20,796.2						
9. RECONCILIATION TO CONTRACT BUDGET BASE																				
a. VARIANCE ADJUSTMENT																				
TOTAL CONTRACT VARIANCE																				

Unclassified
CLASSIFICATION (When filled in)

Signature is not included in the XML – a digital signature is captured as part of the instance file outer envelope

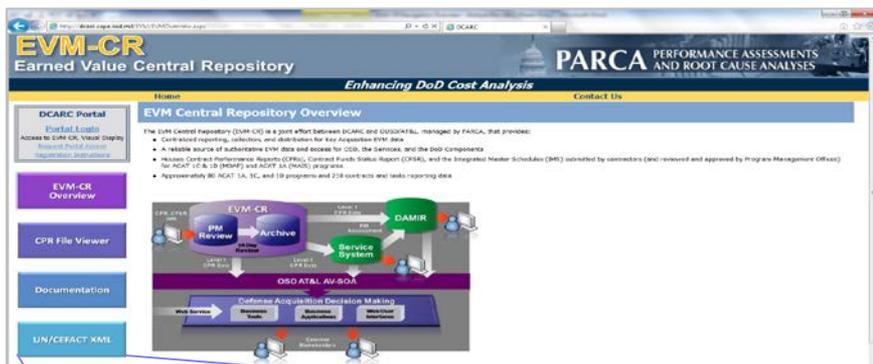


PARCA
EVM

How data is reported

Where to Find the XML Guides/Schemas

- ▶ Go to the EVM-CR (<http://dcarc.cape.osd.mil/EVM/Uncefact.aspx>)



- Updated versions of XML documentation posted from Fall 2013 release





Customize your order **XML Help**

- ▶ UN/CEFACT XML Working Group
 - Joint working group of industry, Government, and software vendors
 - Meets via telecon quarterly
 - Issues/Errors/Suggestions for XML guide or schema changes reviewed by PARCA chaired Change Control Board
 - Additional info: https://wiki.evgen3.org/wiki/index.php/Main_Page

- ▶ EVM-CR Team ready and willing to help test files and provide technical guidance



**PARCA
EVM**

PARCA PERFORMANCE ASSESSMENTS

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**PARCA
EVM**

USING EVM AT HEADQUARTERS

WHAT DO THEY DO WITH ALL OF THAT DATA?

*Lynne Giordano
OUSD(AT&L) PARCA PA
Lynne.M.Giordano.Ctr@mail.mil*



PARCA EVM

Outline

- ▶ The USD (AT&L) and EVM
- ▶ Performance Assessments and Root Cause Analyses (PARCA) Role
- ▶ Defense Acquisition Executive Summary (DAES)
- ▶ Analysis Examples



PARCA EVM

The USD(AT&L) and EVM

- ▶ The USD(AT&L) must understand the status of his acquisition programs.
- ▶ Mr. Kendall is an engineer, an MBA and a lawyer, with experience in industry and in government.
- ▶ He's been using EVM for decades. Knows it. Likes it.
- ▶ A sign on his door says, "In God we trust; all others must bring data."

**If you want a big boss who cares about
EVM and data, you're in luck**



PARCA EVM

How USD(AT&L) Uses the Data

- ▶ What does he do with it?
 - Makes it part of his “mental database”
 - Uses it to inform decisions
 - **Preparation for CEO Meetings**

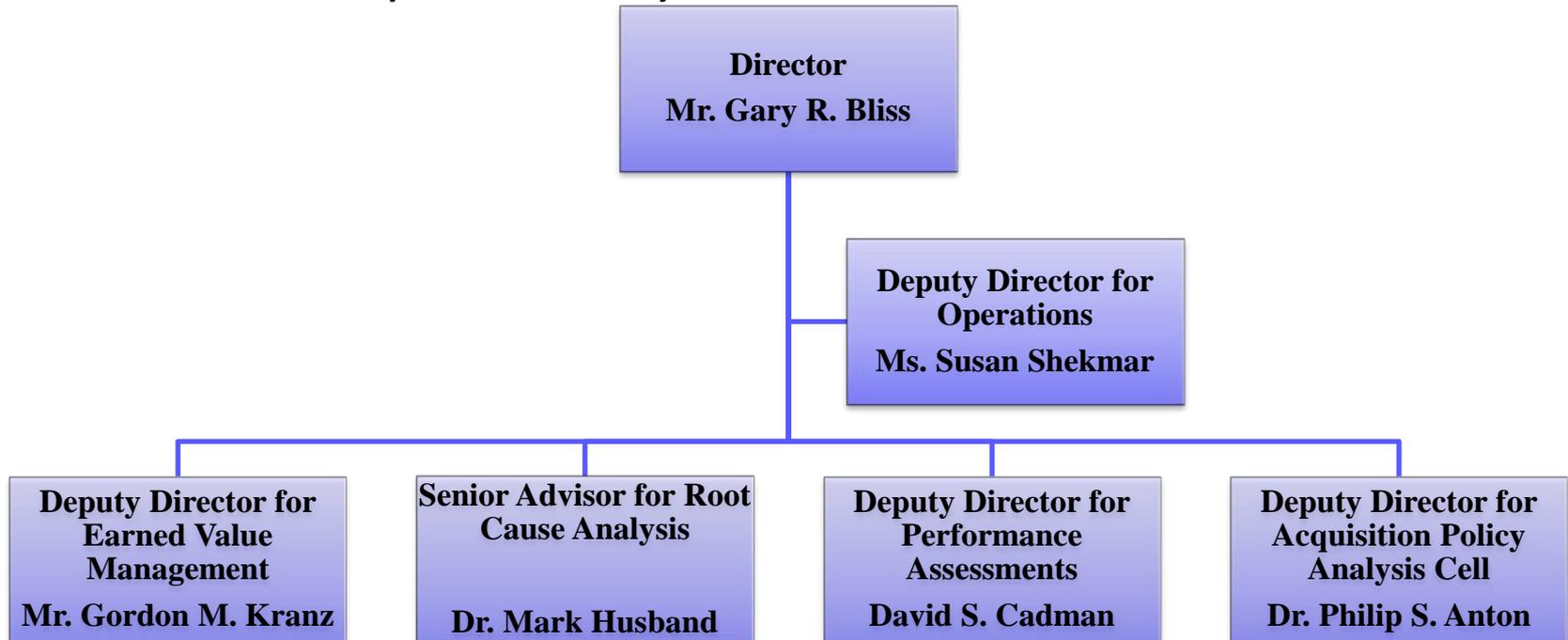
- ▶ How does EVM get to the boss?
 - Informal meetings
 - Memos
 - Through the ASD(A), Mrs. McFarland
 - Defense Acquisition Board meetings
 - Defense Acquisition Executive Summary (DAES) meetings



**PARCA
EVM**

Performance Assessments and Root Cause Analyses (PARCA)

- ▶ PARCA was created by the 2009 Weapons System Acquisition Reform Act (WSARA)
- ▶ Stood up in January 2010



www.acq.osd.mil/parca

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PARCA
EVM

PARCA Performance Assessments – WSARA Assignments

1. Carry out performance assessments of MDAPs, mostly done through DAES Process
2. Issue policies, procedures, and guidance on the conduct of performance assessments, such as DAES Deskbook and Guidance
3. Evaluate the utility of performance metrics used to measure cost, schedule, and performance
4. Advise acquisition officials on performance of programs that have been certified after Nunn-McCurdy breach, or are entering full rate production, or are requesting multi-year procurement

Goal: Improve visibility into the execution status of MDAPs



PARCA PA Responsibilities

- ▶ **Conducting performance assessments**
 - As part of DAES (statutory)
 - Following Nunn-McCurdy certification (statutory)
 - As part of OIPT/DAB and budget processes
 - At request of USD(AT&L) (statutory)

- ▶ **Helping the enterprise conduct performance assessments**
 - DAES assessment guidance (statutory)
 - DAES assessment deskbook (statutory)
 - New analysis tools
 - Collection of best practices
 - Outreach and collaboration



PARCA EVM

Defense Acquisition Executive Summary

- ▶ The Defense Acquisition Executive Summary (DAES) process allows the USD(AT&L) to routinely evaluate the status of Major Defense Acquisition Programs (MDAPs).

- ▶ DAES runs on a monthly cycle with several steps
 - Assessments
 - PMs and OSD staff evaluate 1/3 of MDAP portfolio each month
 - Data is submitted to DAMIR
 - Program Selection
 - Senior OSD officials decide which programs should make formal presentations to the DAES meeting
 - DAES meeting
 - Three or four PMs and PEOs brief USD(AT&L) and other senior leadership

- ▶ EVM analysis is prominent in every step



PARCA EVM

PARCA and DAES

- ▶ DAES is how PARCA meets its requirement to conduct periodic assessments of MDAPs

- ▶ PARCA roles:
 - Assess the Contract Performance category for all programs
 - Assess other categories as appropriate
 - Consolidate assessments from all rating organizations
 - Participate vigorously in selection of programs that will be briefed to USD(AT&L)
 - Ensure critical issues are addressed in briefings to USD(AT&L)
 - Participate in the DAES meetings

PARCA PA looks at the whole program, not just EV!



PARCA EVM

DAES Assessments

- ▶ OSD and Program Managers assess programs in 11 categories:
 - Cost, schedule, performance, contract performance, management, funding, test, sustainment, interoperability, production, international
- ▶ Assessments are color coded, but are supported with detailed narrative explanations

	Cost	Sched	Perf	Fund	T&E	LCS	
PM	R	Y	G	Y	G	Y	1
OSD	R	Y G	Y G Y Y	Y R R	Y Y	Y	1
							2
							3
	Mgmt	Cont	Interop	Prod	IPA		
PM	G	G	G	Y			1
OSD	G Y R Y Y G	Y R	G G Y G	R Y	R		1
							2
							3

- ▶ Assessments document programs' status and history, are stored on a shared website, and are read by all levels of staff and leadership
- ▶ Assessments are the backbone of program selection

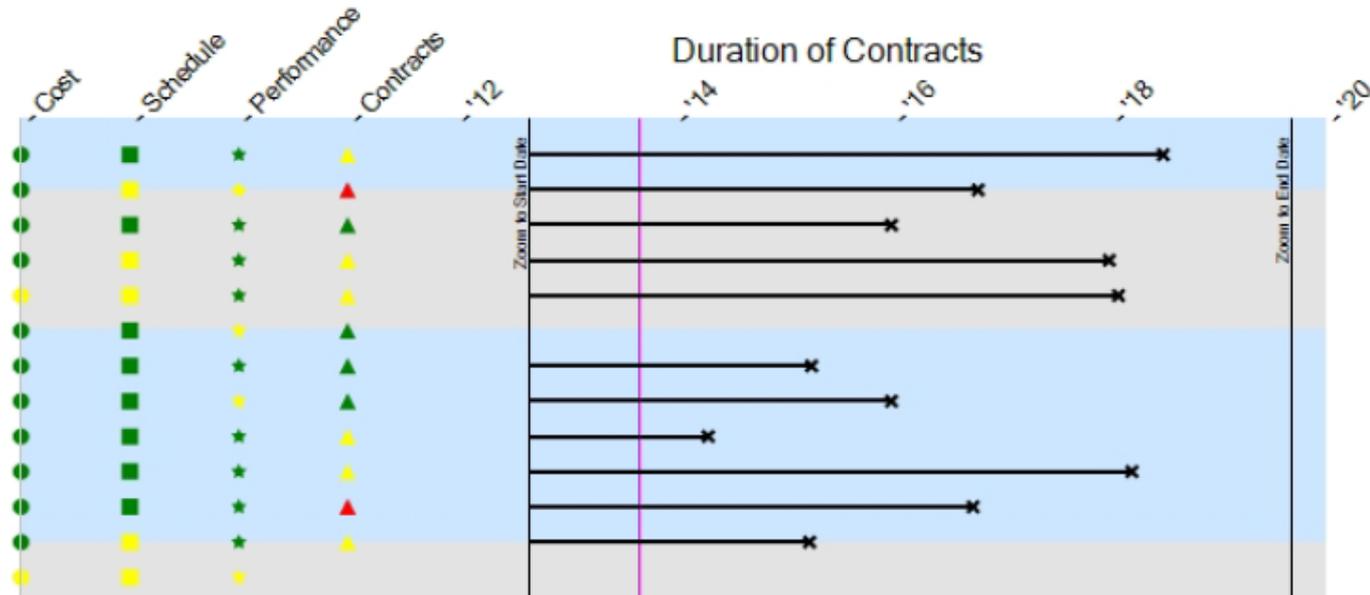


PARCA EVM

Significant Acquisition Watchlist (SAW)

Options Selected

Portfolio: DAES G
 Source: DAES
 Quarter: Apr/May/
 Year: 2013
 Filter by Program: [ALL]
 Filter by Contractor: [ALL]
 Filter by DAES Group: A
 Filter by Commodity Type: [ALL]
 Filter by Service: [ALL]
 Filter by Program Type: [ALL]
 View Contracts: False
 Data Age Threshold (in Days): 30
 Data Submitted Within: 6 Months
 Zoom to Date Range: True
 Start Date: 9/6/2012
 End Date: 9/6/2019





PARCA EVM

DAES Assessments

- ▶ EVM data is used in:
 - Contract Performance: EVM and IMS data are the core of contract performance assessments
 - Management: Lack of EVM data or EVM systems problems can produce negative management ratings
 - Cost: EVM data aggregated across contracts shows program cost status
 - Schedule: EVM data, integrated with IMS data and program milestones is often part of schedule assessments
 - And Others...



**PARCA
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PARCA Contract Performance Assessments

- ▶ PARCA examines the EVM data for every contract on every program being reviewed each month
 - 348 Assessments on 92 programs in last year

- ▶ Formal schedule analysis is becoming a larger part of the assessments
 - IPMR will help

- ▶ We have a formal process for examining the data and turning it into useful assessments



**PARCA
EVM**

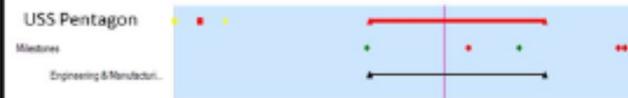
Assessment Analysis Examples

- ▶ Contract Health Analysis
- ▶ Insights Apart from CPI and SPI
- ▶ Schedule Analysis

USS Pentagon (DDX - 123)

Engineering & Manufacturing Development Contract: DF1986-10-C-0001 (CPAF); \$1,384M (30% of \$4,582M Budget)
 Service: Navy DAES Group: A Phase: EMD Milestone: B (Sep 2010) Last DAES: June 2011 APB: Dec. 2009 Prime: IMAX

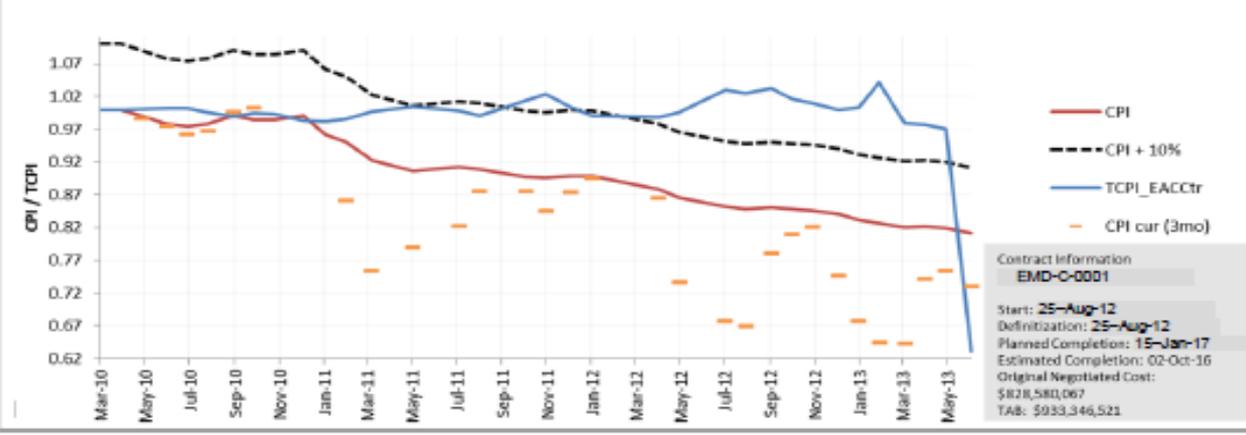
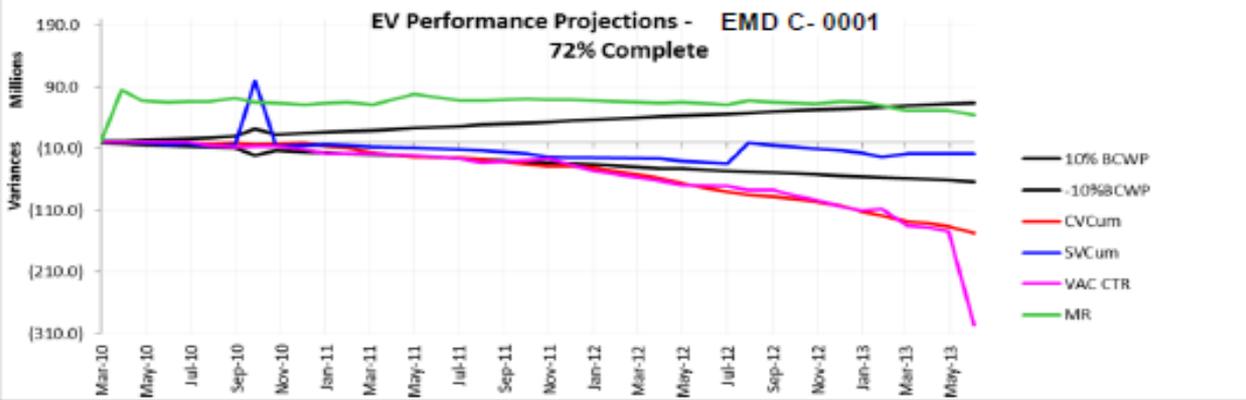
The EMD program consists of one (1) active CPAF contract C-0001, which accounts for 30% of the total DDX program budget. As reported in the EV CR [Mar 2013], the EMD contract is 72% complete, 88% spent.
 The EMD contract is experiencing significant cost challenges. The EMD contract is on the critical path to delivering DDX-123 on time for sea trials and is experiencing numerous challenges and delays. Specifically, the 6-month current CPI trend is 0.68, and the 12-mo. trend is 0.72, with a CPIcum of 0.81. At this pace (CPIcum 0.81, which is down from 0.87 last period), the contract would complete at ≈ \$1,095M (\$206M over budget 23%). The driver[s] for the unfavorable cost performance are shipyard construction delays, as well as SW development challenges on the shipboard command and control network.
 The CTR EAC of \$1,184M represents a \$256M 28% VAC to the \$928M BAC; and would require future cost performance of 0.63 or better. Given CPIcum, and a CPIcur 12 mo. of 0.72, the CTR EAC appear to be achievable yet significantly over budget.



Work Performed	Work Scheduled	Performance Metrics	
Range of EACs \$888 - \$1,184	EAC CTR	\$1,184	
	EAC PM	\$1,102	
	EAC CPI	\$1,095	
	15% VAC	\$1,021	
	EAC TAB	\$933	
	BAC	\$888	
Budget Remaining \$105 12%	Work Remaining \$252 28%	TCPI CTR	0.63
		TCPI PM	0.79
		TCPIcpl	0.81
		TCPI15% VAC	1.06
		TCPI TAB	1.68
		TCPI BAC	2.41
% Spent \$783 88%	72% Complete \$636 74% Scheduled	Schedule SPI cum	0.97
		SPI 3mo	0.98
		SV BEI	-\$19
		CPI	
		Cost CPI cum	0.81
		CPI 3mo	0.73
CV	-\$148		
MR	-\$45		

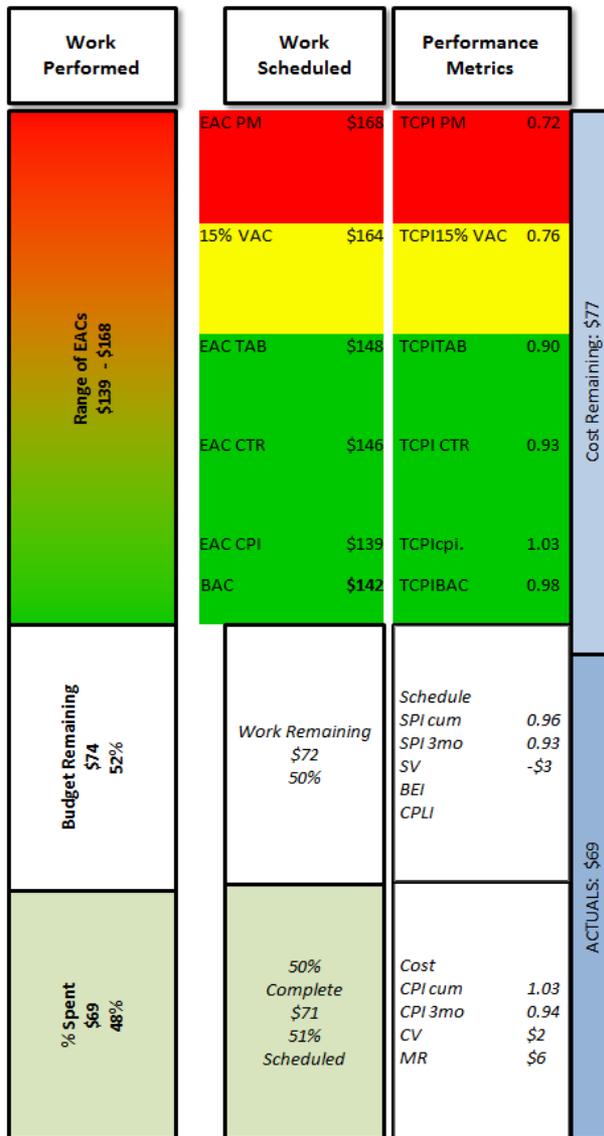
Cost Remaining: \$400

ACTUALS: \$783





Thermometer Chart



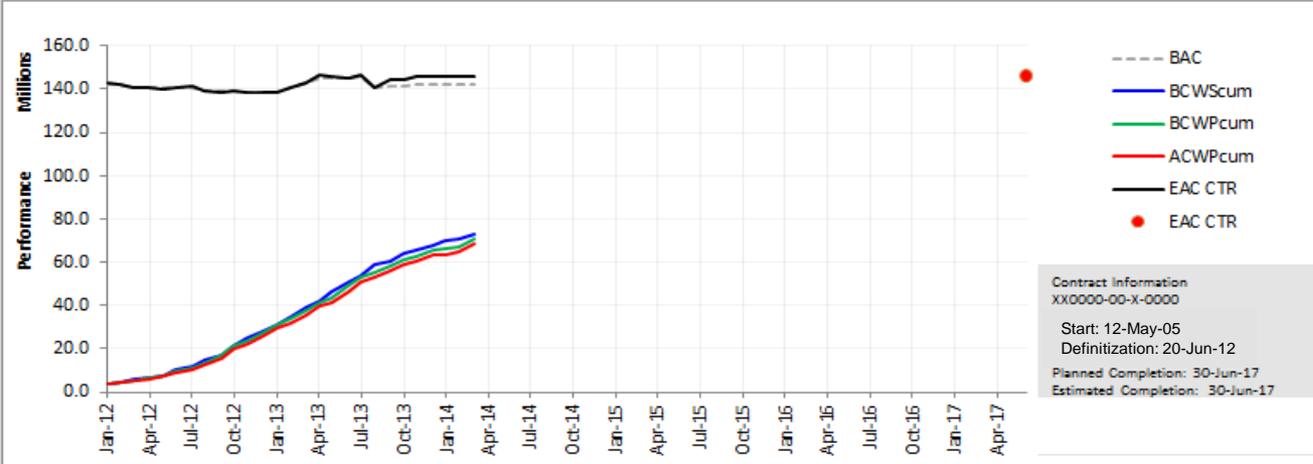
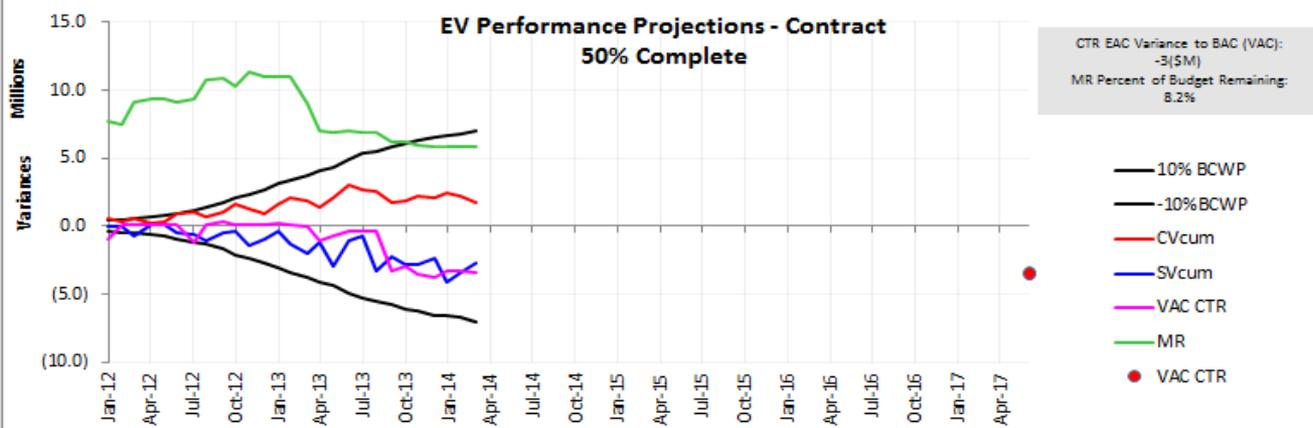
Program

XX0000-00-X-0000 (CPIF); \$148.2M, 1% of \$13,562.3M Budget

Service: Navy DAES Group: B Phase: Production Milestone: MSE Last DAES: 07/2013 APB: 03/2009 Prime: IMAX

Cost and schedule performance of the contract effort are within acceptable thresholds. As reported in the March 2014 EVM-CR CPR, the contract is 49.5 % complete and 48.3% expended. The SPIcum is 0.96 and the CPIcum is 1.03. The CTR EAC of \$145.9M represents a -\$3.5M VAC to the \$142.4 BAC, and would require future cost performance of 0.93 or better.

PERFORMANCE INDICIES	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	March-14
CV%cum	3%	5%	6%	5%	5%	3%	3%	4%	3%	4%	3%	3%
SV%cum	-3%	-6%	-2%	-1%	-6%	-4%	-4%	-4%	-4%	-6%	-5%	-4%
CTR VAC%	-1%	-1%	0%	0%	0%	-2%	-2%	-3%	-3%	-2%	-2%	-2%
OTB		✓										
NCC Change					↓							



Work Performed	Work Scheduled	Performance Metrics
Range of EACs \$139 - \$168	EAC PM \$168	TCPI PM 0.72
	15% VAC \$164	TCPI15% VAC 0.76
	EAC TAB \$148	TCPITAB 0.90
	EAC CTR \$146	TCPI CTR 0.93
	EAC CPI \$139	TCPIcpi 1.03
	BAC \$142	TCPIBAC 0.98
Budget Remaining \$74 52%	Work Remaining \$72 50%	Schedule SPI cum 0.96 SPI 3mo 0.93 SV -\$3
	% Spent \$69 48%	SPI 6mo SPI 12mo
	50% Complete \$71 51% Scheduled	Cost CPI cum 1.03 CPI 3mo 0.94 CV \$2
		CPI 6mo CPI 12mo
		ACTUALS: \$69
		Cost Remaining: \$77

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PARCA EVM

Insights Apart from CPI and SPI

- ▶ Portfolio views
 - Grouping by contractor, commodity or Service
- ▶ Asking questions about the data and the systems that created it
- ▶ Combining EVM with other data to examine cost progress and funding



PARCA EVM

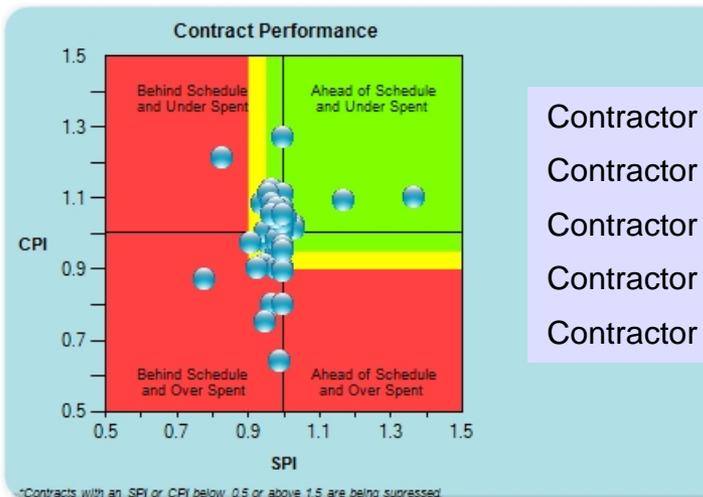
Contract Dashboard

*Click on a state on the U.S. map below or choose a state from the drop down. [ALL] ▼



Drag a column header and drop it here to group by that column

Program	Contract	Svc	Contractor	St	Target	SPI	CPI	Rpt
Program X	XX-00-X-0000	Air Force	CTR A					
Program X	XX-00-X-0000	Air Force	CTR A	CA	1801.2			
Program Y	XX-00-X-0000	Air Force	CTR B	CA				Mar 2014
Program Y	XX-00-X-0000	Air Force	CTR B	CA	5653.3	1.00	1.03	Mar 2014
Program Y	XX-00-X-0000	Air Force	CTR A/B	CA	1598.7	1.00	1.03	Mar 2014
Program Z	XX-00-X-0000	Army	CTR C	VA	887.8	0.98	0.99	Mar 2013
Program Z	XX-00-X-0000	Air Force	CTR C	VA	92.9			



Contractor A

Contractor B

Contractor C

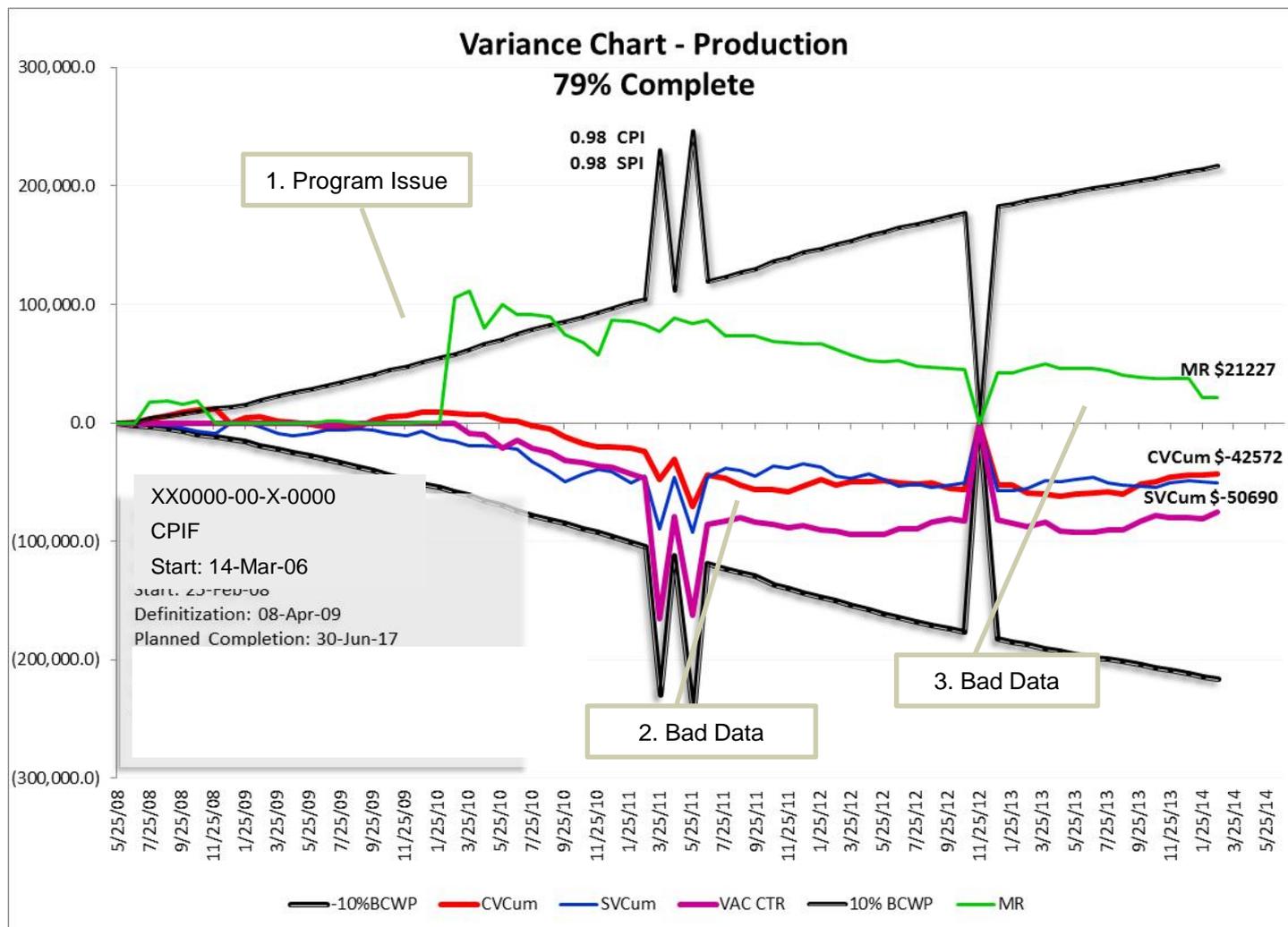
Contractor D

Contractor E



PARCA EVM

Variance Analysis

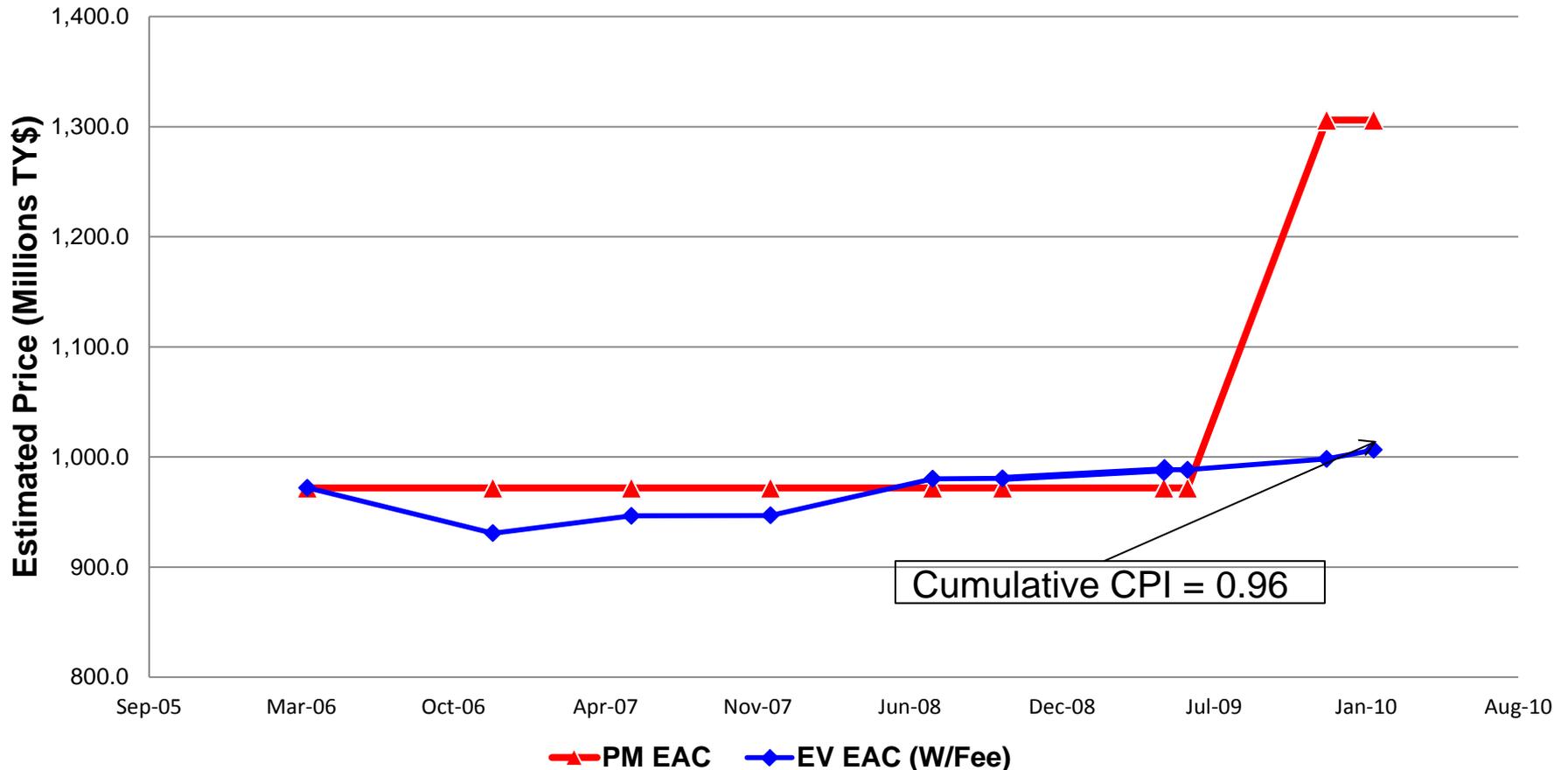


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Make the Data Better by Using it, and Asking Questions

A Failed EV System – No Connection Between CPI and Reality



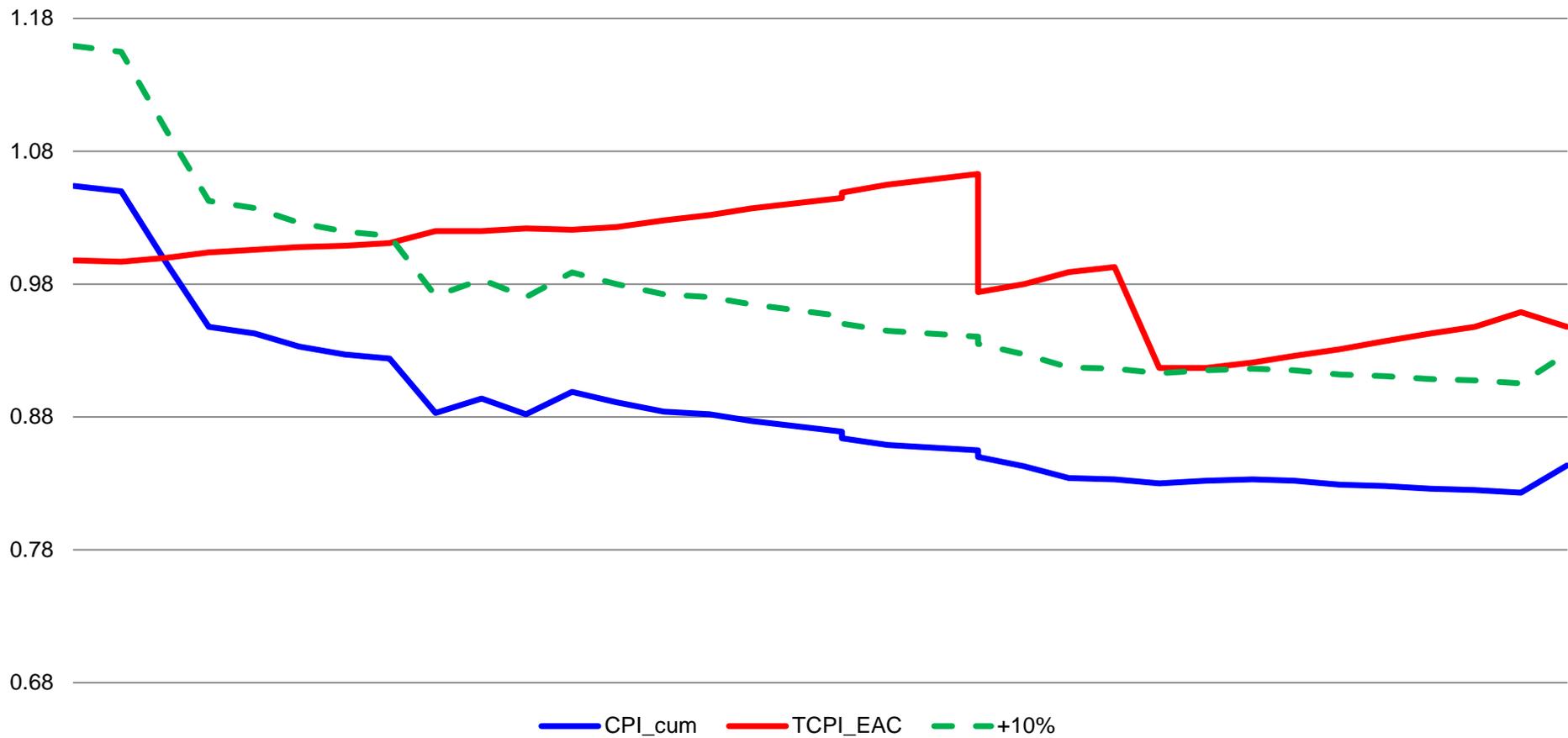
Cumulative CPI = 0.96

PM EAC EV EAC (W/Fee)



**PARCA
EVM**

Program Not Adjusting to Poor Performance



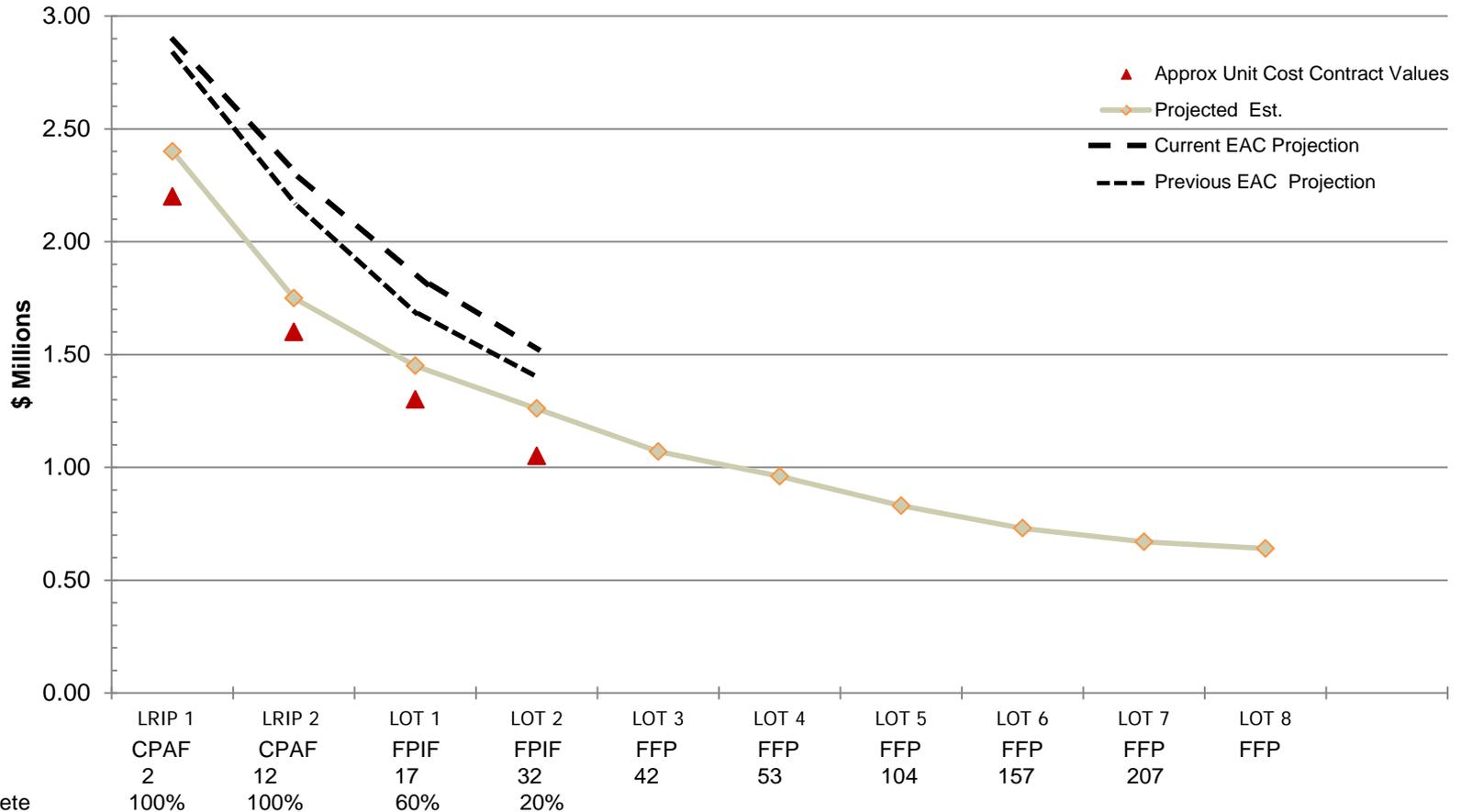
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**PARCA
EVM**

Analysis Example - Using EV Data to Show Implications of LRIP Costs

Notional Data Estimated Average URF Price by Lot

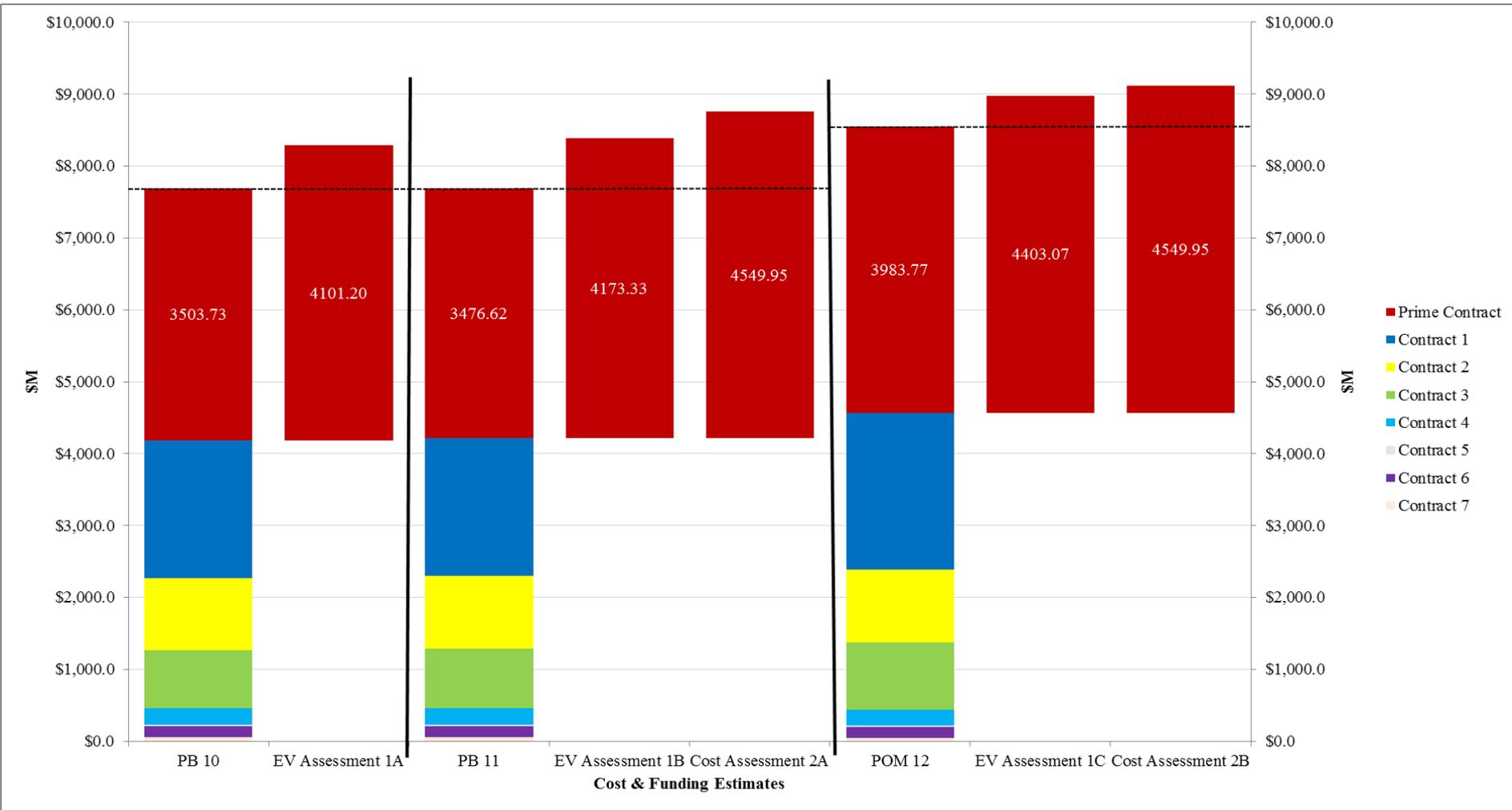


EAC projection based on CUM Current Period CPR



**PARCA
EVM**

Program Not Funded to Actual Performance



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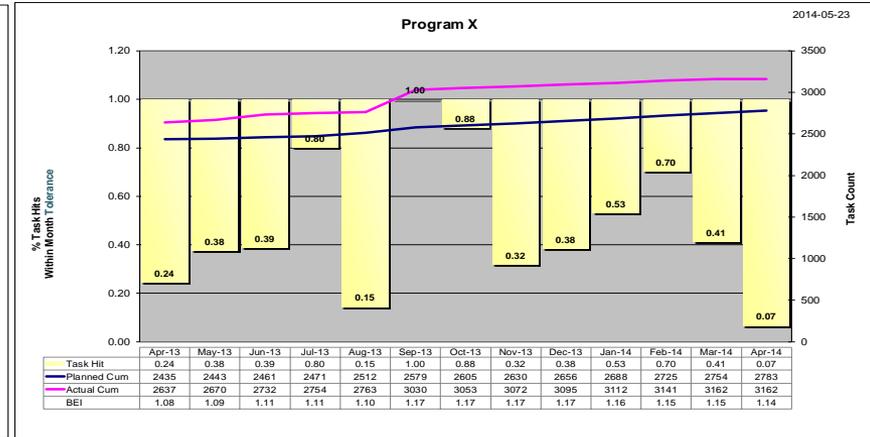
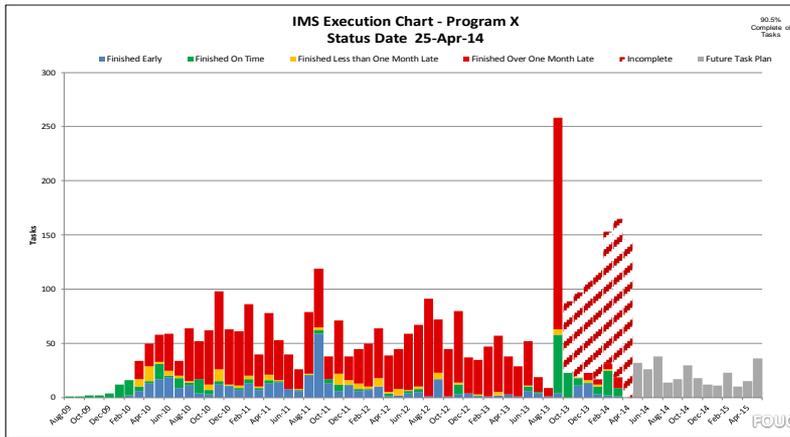
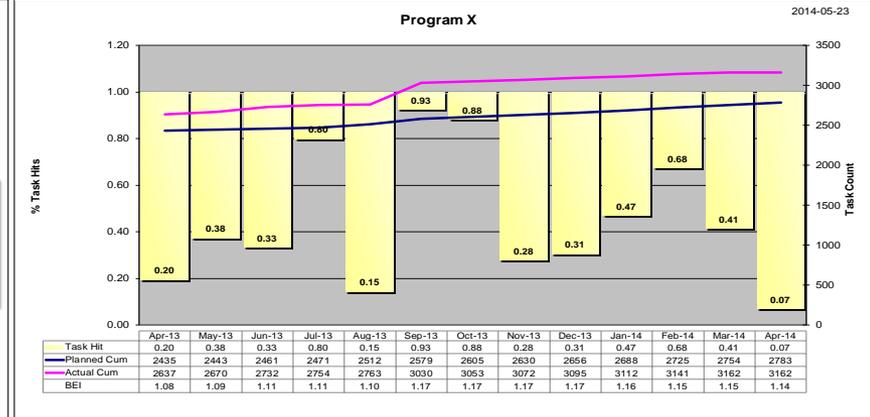
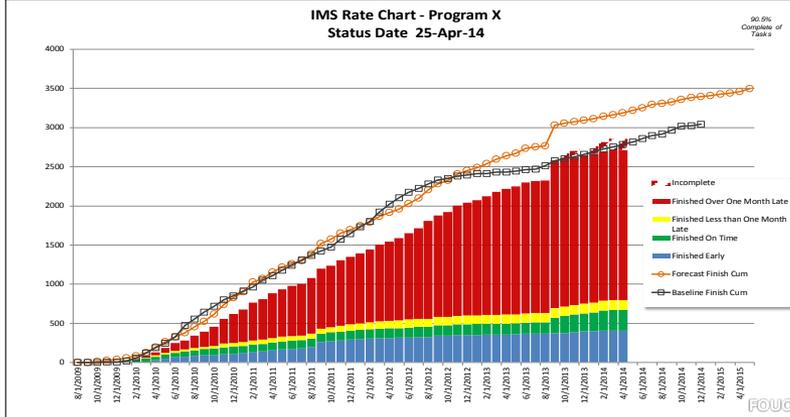


Schedule Analysis

Program X

90.5% Complete of Tasks
 Forecast number of tasks for next month is 14.5% MORE than the baseline plan. On time completion is unlikely at this rate.
 The forecast completion of all IMS tasks is PAST the baseline by 5 Month(s).
 The BEI for Apr-14 is 1.14, however the completion rate for tasks planned in Apr-14 is 0.07
 This month the BEI has decreased by 1.20%

Status Date: 25-Apr-14 First Task BL Finish 24-Aug-09 First Task Finish 6-Aug-09
 Slip (months) 5 Last Task BL Finish 24-Dec-14 Last Task Finish 27-May-15



5/23/2014 10:10

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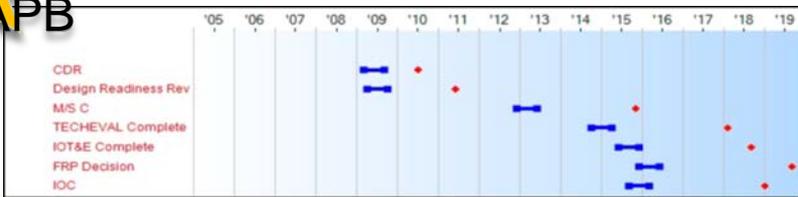


PARCA EVM

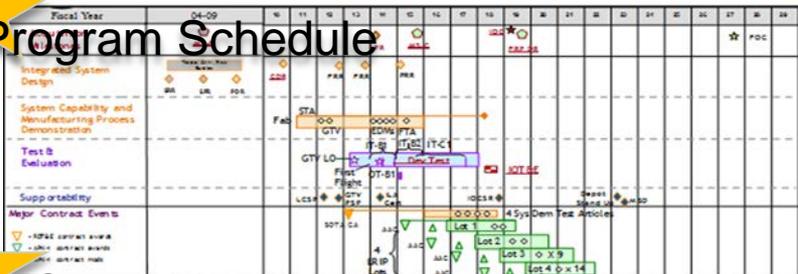
Schedule "inchstones" Show a Program Falling Behind

- ▶ THE GOAL: Evaluate progress to achieving long term schedule goals.
- ▶ THE APPROACH: Track progress to near term events that drive those future schedule goals.

★ APB



★ Program Schedule



★ IMS and Tracking Events (contract level)



EXAMPLE:

- ▶ The Program IOC milestone had slipped several years.
- ▶ The goal was to bring the IOC milestone back compressing time to First Flight and completing Test Article Assembly and IOT&E several months ahead of schedule.
- ▶ PARCA worked with the PO to identify 5 items in the IMS that were important to FF and Assy.
- ▶ Subsequent monthly progress on those items showed First Flight and Assembly falling behind.



Inchstones - continued

- ▶ We followed a key component of the First Flight
- ▶ Metrics and Observations shown below:

FF will not be on time with a 71 day slip to this element

<i>Key IMS Activity 1</i>						
	Month 3	Month 6	Month 9	Month 12	Month 15	Month 18
Forecast Start	6/12/2013	6/27/2013	7/12/2013	7/27/2013	8/11/2013	8/26/2013
Forecast Finish	6/30/2013	7/15/2013	7/24/2013	8/14/2013	9/15/2013	9/15/2013
Baseline Finish	7/5/2013	7/5/2013	7/5/2013	7/5/2013	7/5/2013	7/5/2013
Total Float	15 days	10 days	5 days	0 days	-5 days	-15 days
Forecast Duration	18 days	18 days	13 days	19 days	35 days	20 days
Finish Variance	6 days	-9 days	-19 days	-40 days	-71 days	-71 days

Not only is the activity late, it is now on the critical path with negative float.

The forecast finish also remains constant even though the start is slipping.



PARCA EVM

Summary

- ▶ Your EVM data is reviewed at the highest levels in OSD
- ▶ EVM data is a critical element of routine program monitoring, formalized by DAES
- ▶ The data is used beyond DAES for analysis and decision making
- ▶ PARCA is responsible for both EV Policy and for using the data to help decision-makers

In God we trust; all others must bring data



**PARCA
EVM**

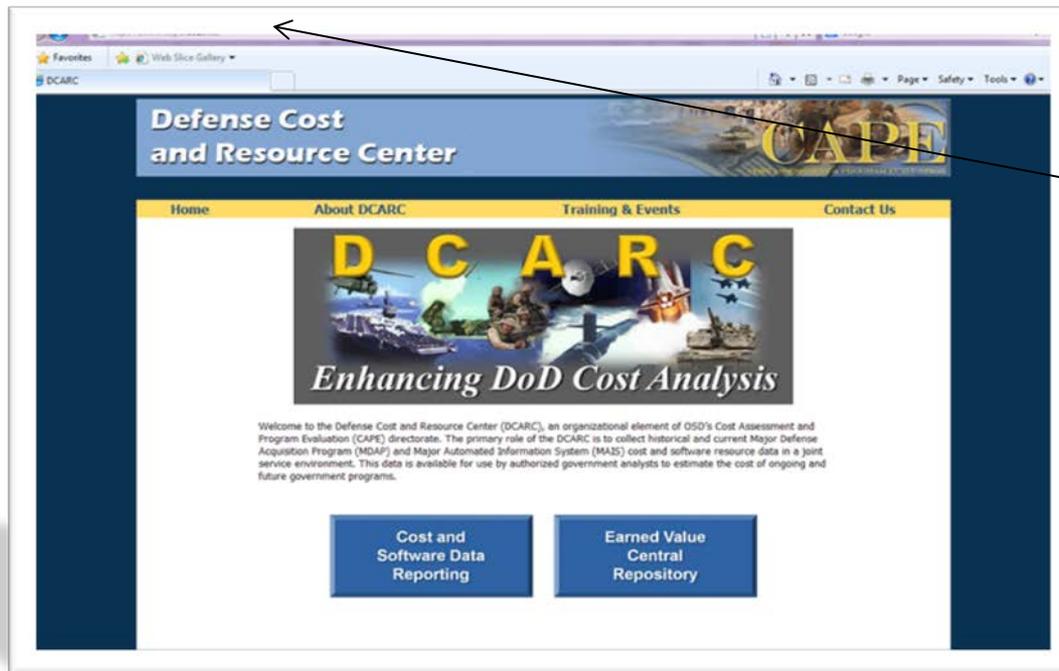
EVM-CR



PARCA EVM

EVM Central Repository

- ▶ The purpose of the EVM-CR is to establish a source of authoritative EVM data for the Department and to provide timely access for the PMOs, Services, OSD and DoD Components
 - Managed by OUSD(AT&L) / PARCA
 - Hosted on DCARC servers; separate from CSDR information



<http://dcarc.cape.osd.mil/>



PARCA EVM

EVM-CR Requirement

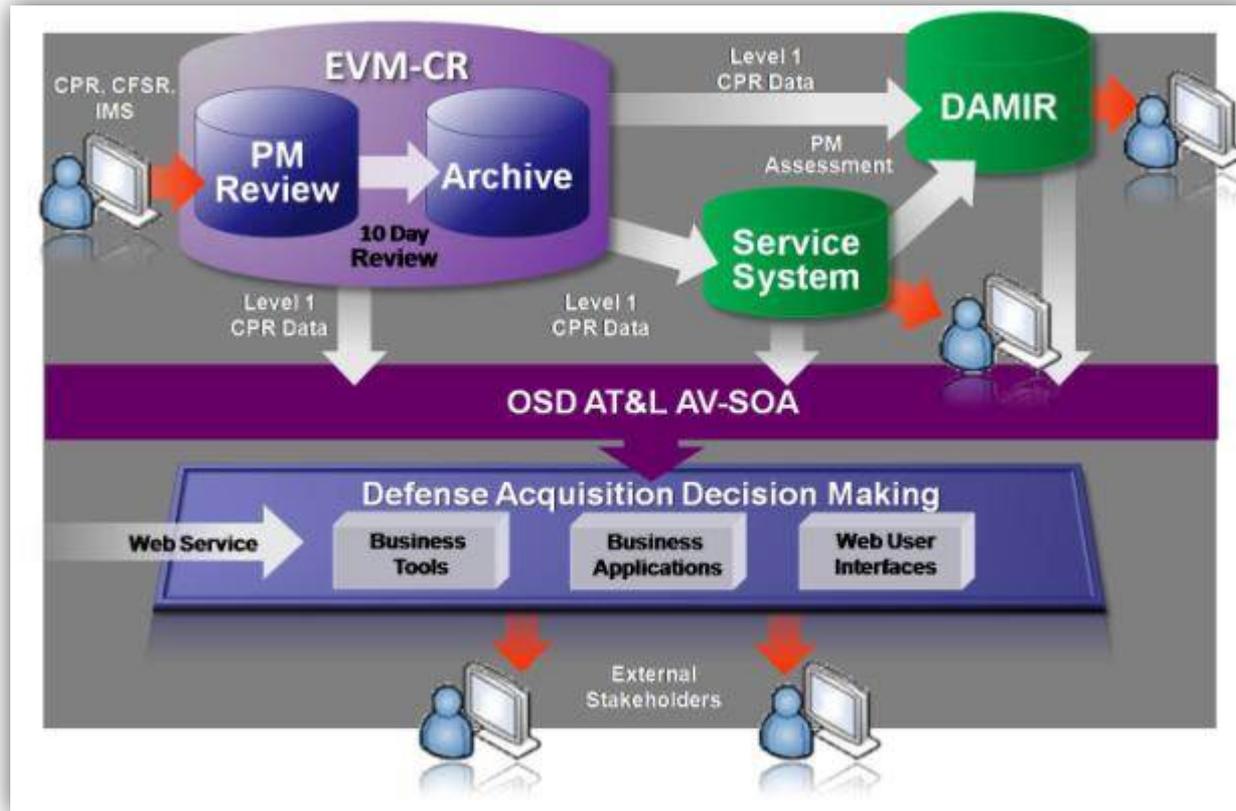
- ▶ ACAT 1A, 1C and 1D program/contracts with EVM reporting requirements are required to submit to the EVM-CR
 - Cost and schedule data expected monthly (IPMR)
 - Contract Funds Status Report (CFSR) expected quarterly
 - OUSD(AT&L) / PARCA has offered other ACATs access to submit
 - Reporting location information documented on contract CDRL(s)

- ▶ Note: *Using the IPMR does not require reporting to the EVM-CR*



PARCA EVM

EVM-CR System



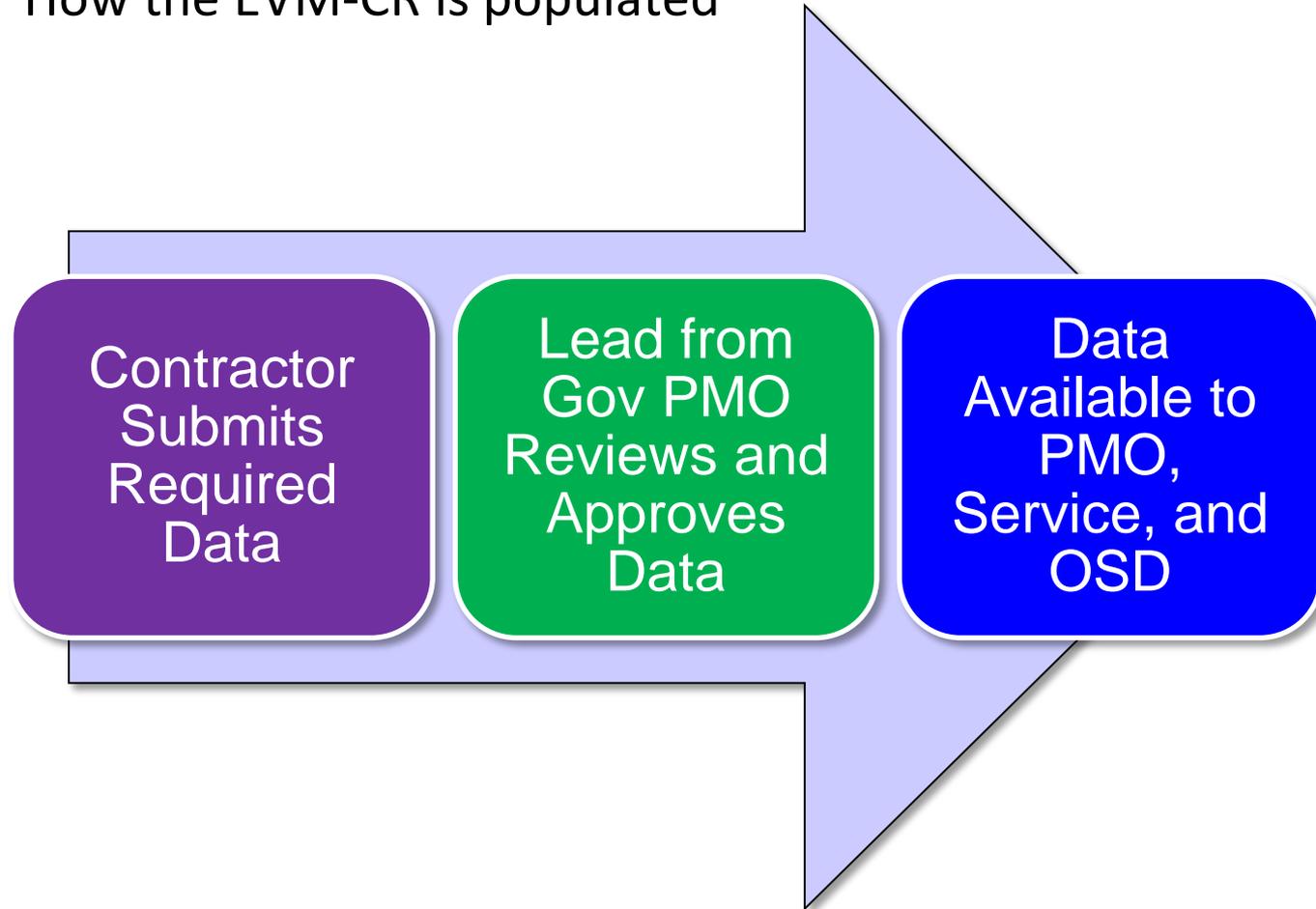
- ▶ EVM-CR supports various service and OSD systems, including support of the DAES review process



PARCA EVM

Workflow

- ▶ How the EVM-CR is populated





PARCA EVM

Data Access

- ▶ Only the DoD and DoD support contractors (SETA) have access to the information provided to the EVM-CR.
 - SETA support contractors required to have NDA's in place to view the submitted information from the performing contractor.
 - Gov Service members with Analyst role, have access to all contracts within their assigned services.

- ▶ Performing Contractors team members have access only to the data on contracts they are associated with.

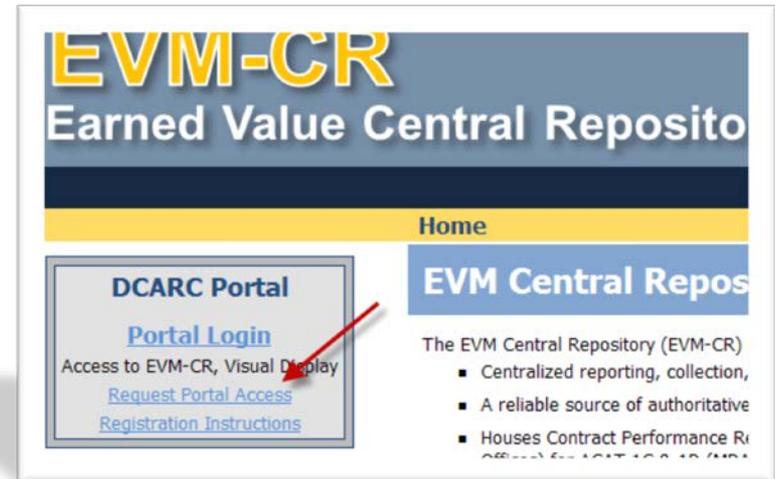
- ▶ Summary data extracted by OSD DAMIR system for use in DAES process.



PARCA EVM

Requesting Data Access

- ▶ Data access must be requested via the DCARC Knowledge Portal



- ▶ DoD personnel must have a valid Common Access Card (CAC) or be able to obtain a valid ECA Client Certificate to request an account
 - Requires a Gov civilian or military to confirm/approve
- ▶ Performing contractors must have a valid ECA Client Certificate to request an account



General Roles

- ▶ EVM-CR Analyst
 - As an EVM-CR Analyst you have access to published reports (no access to Rejected, Pending or Submitting reports)
 - Access to various reporting tools

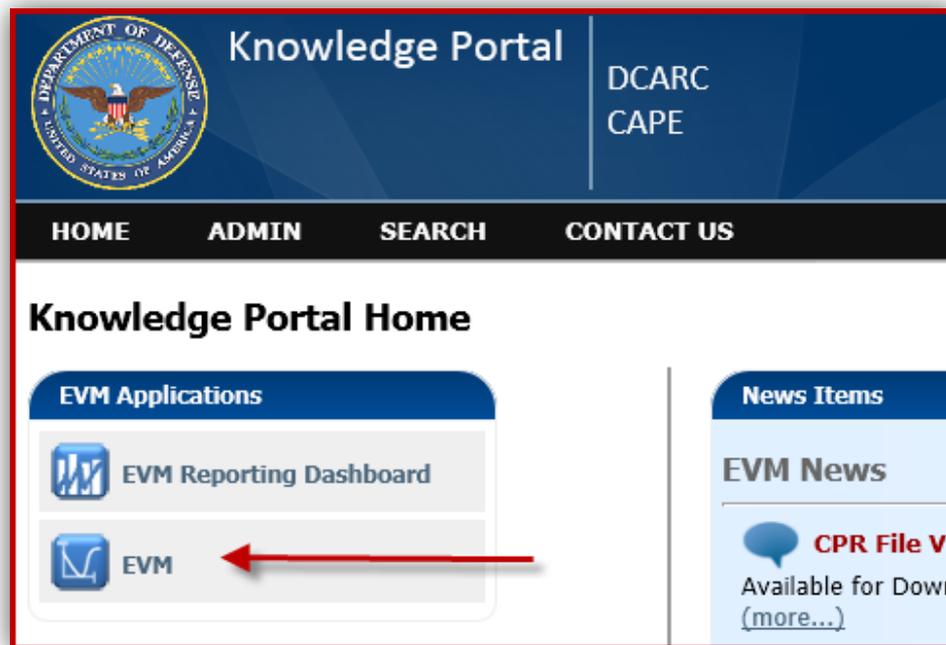
- ▶ Submitter
 - Performing contractor personnel who upload data files

- ▶ Reviewer
 - PMO team member that reviews submitted files
 - Lead reviewer has authority to approve or reject files in submission



Accessing the EVM Website

- ▶ The first time you access you have to use your User ID and password, but then can link your CAC for future access.
- ▶ Once your access is approved. Log in to the DCARC Portal and click the EVM Website link as shown here to access the EVM Central Repository.





**PARCA
EVM**

EVM-CR SUBMIT & REVIEW PROCESS

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Lead Reviewer: Program Setup

- ▶ For a submission of data to occur, the Lead Reviewer must provide contract detail and reporting requirement information to the Help Desk in order to establish the Contract(s) in the EVM-CR
 - Ensure program, contracts, and tasks are defined
 - Provide program description information including contract numbers, task names, CLIN numbers, etc.
 - Provide copies of EVM CDRLS for review
 - Define/Maintain Reviewer Team
 - Define/Maintain Submitter Team
 - Keep EVM-CR IT team informed of any changes to reporting or to the EVM CDRLs



PARCA EVM

Submitter Duties

- ▶ Verify requirement to submit to EVM-CR
 - Not based on CSDR reporting
- ▶ Register with EVM-CR (just submitter role)
- ▶ Coordinate with lead reviewer/contract POC to be added to contract submit team
- ▶ Verify contract details in EVM-CR
- ▶ Submit against correct submission stream



PARCA EVM

Submission Steps / Status

- ▶ STEP 1: Select Requirement
 - Select a contract/event

- ▶ STEP 2: Upload files (1 or more)
 - Status of uploaded information set to “SUBMITTING”

- ▶ STEP 3a: Review Level-1 CPR data (from EDI / XML)

- ▶ STEP 3b: Review and Submit
 - Specify Report Date and POC information
 - Status of data file upload set to PENDING (i.e., awaiting review by PMO)



PARCA EVM

Notes on Submissions

- ▶ Submitted files are expected to conform to the data requirements and delivery frequency per the applicable CDRL provided to the EVM-CR by the Gov POC.
 - Submit ALL required documents; submissions can not be added to.
 - Select proper file type; if delivering cost data, choose cost data type.
 - If uploading multiple cost files, be sure to mark the total program roll-up as the “total” file.
 - DO NOT MARK “CLASSIFIED”, etc. EVM-CR is for unclassified submissions only!
 - XML files will be tested for compliance to the applicable schema.



PARCA EVM

Upload Home

Knowledge Portal | PARCA

PORTAL HOME | EVM HOME | EVM ADMINISTRATION | MY EVM | EVM REPORTING

Upload Home

(*** EVM Data Only, No CSDR Data ***)

Submit | Task Submission Status | Assigned Contracts | Submission History

Continue Existing Submissions

Program	Contract	Task	Submission ID	Year	Month	Report Category(s)	Report Date		
Example	N0000-00-N-0000	Task 1	23679	2014	2	Native Schedule	2/28/2014	Continue	Cancel
Example	N0000-00-N-0000	Task 1	23684	2010	6	IPMR Cost	6/23/2010	Continue	Cancel
Example	N0000-00-N-0000	Task 1	23700	2013	11	IPMR Schedule	11/30/2013	Continue	Cancel

Start New Submission on Task

Program	Contract	Task	Cost (CPR)	CFSR	Schedule (IMS)	History
Example	N0000-00-N-0000	Task 1	Start Submission	Start Submission	Start Submission	Start Submission
Example	N0000-00-N-0000	test 2	Start Submission	Start Submission	Start Submission	Start Submission

Navigation

- Find Current Requirements (for assigned contracts)
- Find in progress submission events
- Review past published and rejected submissions



Submit Process Step 1: Upload Home

Select "Continue" or "Start Submission"

Upload Home

(*** EVM Data Only, No CSDR Data ***)

Submit

Task Submission Status

Assigned Contracts

Submission History

Continue Existing Submissions

Program	Contract	Task	Submission ID	Year	Month	Report Category(s)	Report Date		
Example	N0000-00-N-0000	Task 1	23679	2014	2	Native Schedule	2/28/2014	Continue	Cancel
Example	N0000-00-N-0000	Task 1	23684	2010	6	IPMR Cost	6/23/2010	Continue	Cancel
Example	N0000-00-N-0000	Task 1	23700	2013	11	IPMR Schedule	11/30/2013	Continue	Cancel

Start New Submission on Task

Program	Contract	Task	Cost (CPR)	CFSR	Schedule (IMS)	History
Example	N0000-00-N-0000	Task 1	Start Submission	Start Submission	Start Submission	Start Submission
Example	N0000-00-N-0000	test 2	Start Submission	Start Submission	Start Submission	Start Submission



Submit Process Step 2: Upload Submission

Back | Cancel Submission

Upload Submission

Program: **Example**

Contract Number / Task: **N0000-00-N-0000 / Task 1**

Report: **IPMR Cost, Formatted Cost** Month, Year: **Apr, 2014** Submission ID: **23709**

Files

Unclassified Documents Only

Uploaded files may be of the following type(s):

- IPMR Cost files (839 EDI, wInsight XML, and CPR Format 1-4 UN/CEFACT XML) - At least 1 file is required before submit.
- Formatted Cost reports (CPR formats 1-5)

Select a file to Upload

Caution: The total size of each file must be less than 300 mb.

[no files selected]

Browse

Please select a File Type

File Comment:

Upload

Uploaded Files

There are no files uploaded for this submission.



Submit Process Step 3: Upload Files

Upload one or more files to a submission

- Identify file type
- Provide comment

Typical Example of IPMR Cost Submission

Uploaded Files					
	File Name	File Type	File Level	File Comment	Actions
	April IPMR Cost File.xml	IPMR Cost	Total	IPMR Cost File	
	Format 1.pdf	Formatted Cost		Format 1	
	Format 2.pdf	Formatted Cost		Format 2	
	Format 3.pdf	Formatted Cost		Format 3	
	Format 4.pdf	Formatted Cost		Format 4	
	Format 5.docx	Formatted Cost		Format 5	
	F5 Addendum.pdf	Other		Supplemental information	

Back | Cancel Submission

Upload Submission

Program: **Example**
 Contract Number / Task: **N0000-00-N-0000 / Task 1**
 Report: **IPMR Cost, Formatted Cost** Month, Year: **Apr, 2014** Submission

Files | CPR Data | Review & Submit

Next Step

Unclassified Documents Only

Uploaded files may be of the following type(s):

- IPMR Cost files (839 EDI, wInsight XML, and CPR Format 1-4 UN/CEFACT XML) - At least 1 file is required before submit.
- Formatted Cost reports (CPR formats 1-5)

Select a file to Upload

Caution: The total size of each file must be less than 300 mb.

Please select a File Type File Comment:



PARCA EVM

Step 3a: Review Data

- When an XML, TRN or WSA file is uploaded (and tagged as IPMR Cost, IPMR Schedule or History) the user will see a screen that shows the data extract from the file as shown here.
- Validation errors/warnings will be shown in red.
- Please select the appropriate option and click Continue.
- The Data Quality Validation report will show a detailed list of all checks and note those that had issues.

Back Cancel Submission

Upload Submission

Program: Patriot PAC 3 - Patriot Advanced Capability 3
 Contract Number / Task: W31P4Q 07-G 0001 / SRM Obsolescence 0017
 Report: IPMR Cost, Formatted Cost Month, Year: Aug, 2013 Submission ID: 23705

Files CPR Data Review & Submit

Processed File

Submission Options
 Please review the processing results below and choose one of the 3 options before continuing.

Accept and upload another file
 Accept and continue
 Delete and upload a different file

Choose an option and click continue

File Details

File Name	File Type	File Level
Test.xml	IPMR Cost	Total

Current Period Information

Current Period
 Report From: 10/1/2010 To: 8/25/2013

Report Information

Program Name	Phase	Contract Number	Contract Type

Contractor	Maximum WBS Level	CPR ID	Final CPR
		3 173110	Yes

CPR Header Dollars in Thousands

Quantity	Share Above	Share Below	Original NCC	NCC
	50	75		

CBD	TAB	AUW	Contract Ceiling	Estimated Ceiling

Best Case EAC	Worst Case EAC	Most Likely EAC	Target Price	Estimated Price

Variances

At Complete	Cumulative Schedule	Cumulative Cost	Total Schedule	Total Cost

CPR Dates

Contract Start	Contract Definitization	Planned Completion	Contract Completion	Estimated Completion
10/1/2010	8/16/2011	4/30/2016	4/30/2016	4/30/2017

Performance Measurement Baseline (PMB)

PR	BAC	EAC	BCWS	BCWP	ACWP	CPI	SPI

Over Target Baseline (OTB)

OTB Date	BAC Adjustment	SV Adjustment	CV Adjustment	PR Adjustment

Calculated Fields

DAMIR Validation Failures

Any failures listed below may prevent this data from being sent to the DAMIR system.

- Contract Ceiling price must be greater than or equal to TargetPrice
- Estimated Contract Ceiling must be greater than or equal to Estimated Price

Data Validation Warnings

Further warnings detected within the data.

- 1 out of 27 WBS element leaf nodes report Cumulative BCWS less than 0
- 1 out of 27 WBS element leaf nodes report Cumulative BCWP less than 0
- 1 out of 27 WBS element leaf nodes report Cumulative ACWP less than 0

Submission Data Quality Validation Reports

Download Report

Data Validation Report

Description	Source	Passed	Failed
Share Above (Contractor Share) between 0 and 100	DAMIR	X	
Share Below (Contractor Share) between 0 and 100	DAMIR	X	
Report Period From is required	DAMIR	X	
Report Period From must be on or before Report Period To	DAMIR	X	
Completion Date must be on or After Start Date	DAMIR	X	
Estimated Completion Date Must be on or After Start Date	DAMIR	X	
Planned (Budget) Completion Date must be on or after Start Date	DAMIR	X	
OTB Date must be on or before Report Period To (or report created date)	DAMIR	X	
Management Reserve must be greater than or equal to 0	DAMIR	X	
Quantity must be greater than or equal to 0	DAMIR	X	
BAC must be less than or equal to TAB	DAMIR	X	
Contract Ceiling price must be greater than or equal to TargetPrice	DAMIR	X	
Estimated Contract Ceiling must be greater than or equal to Estimated Price	DAMIR	X	
Target Price must be greater than or equal to NCC	DAMIR	X	
Best Case EAC must be less than or equal to Most Likely EAC	DAMIR	X	
Worst Case EAC must be greater than or equal to Most Likely EAC	DAMIR	X	
Best Case EAC must be less than or equal to Worst Case EAC	DAMIR	X	
PMB Cumulative BCWS must be less than or equal to BAC	DAMIR	X	
PMB Cumulative BCWS must be less than or equal to	DAMIR	X	



PARCA EVM

Step 4: Review & Submit

Back | Cancel Submission

Upload Submission

Program: Example
 Contract Number / Task: N0000-00-N-0000 / Task 1
 Report: IPMR Cost Month, Year: Jun, 2010 Submission ID: 23684

Files | CPR Data | **Review & Submit**

Submission Information

Cntr #: N0000-00-N-0000 Ctr: DCARC Corporation Division: N/A Location: Cage Code:	Sub Cntr #: Sub Ctr: Division: Location: Cage Code:	Program Program Name: Example PNO: Program Mgr: Unknown Service: DOD Mil Handbook: ELECTRONIC/AUTOMATED SOFTWARE Weapon Sys: OTHER
--	--	---

Contract Tasks: Task 1, test 2
Contract Type: Unknown **Start Date:** **End Date:** **Stops Contract Reporting?:** No **EDI Required On Contract?:** No

Submission Details

Report Date: 6/23/2010

Is Draft:

Comment:
(Max 256 chr.)

Save Submission

Point of Contact Information

Name: test Jen

Phone: 1234

Fax: 1233

Email: est@tc.c

[Update Contract Task POC](#)

To change the POC information for this submission, update Name, Phone, Fax and email and click here to save your changes.

Uploaded Files

File Name	File Type	File Level	First Period	Latest Period	Final CPR
CPR Sample - L2 Errors - 01.xml	IPMR Cost	Total	6/23/2010	6/23/2010	172896

Submit

- The Report Date will be pre-populated if you have provided a processable file.
- If you are submitting any other file type you will be required to enter this date.
- Click “Save Submission”.
- Verify all information is correct.
- Click Submit.



PARCA EVM

Government Review Process

- ▶ Review team notified of submission

- ▶ Reviewers access, assess, “vote”, and comment
 - Unconditionally accept
 - Conditionally accept
 - Reject

- ▶ Lead Reviewer Publishes or Rejects submission
 - If not published after 10 calendar days it will be automatically published
 - Optionally can notify managerial oversight reviewers of submission prior to publish/reject decision



Review Submissions

Submission Review Home

- Submissions: All submission (that require your action)
- Task Submission Status: Displays current delivery status ratings for assigned tasks.
- Contracts: You have review role authority
- Submission History: Prior submission across all contracts with you as reviewer

Submission Review Home

Submissions

Task Submission Status

Contracts

Submission History

Pending Submissions

Submissions Filtered By My Review Decisions:

<u>Submission ID</u>	<u>Prime Contract Number</u>	<u>Report Category(s)</u>	<u>Contract Task</u>	<u>Program Name</u>	<u>Report Date</u>	<u>Submitter Name</u>	<u>Submitted Date</u>	<u>Role</u>
23537	N0000-00-N-0000	IPMR Schedule	Task 1	Example	8/23/2014	Damon Eckert	9/1/2014	Lead Reviewer



EVM-CR Submission & Review Functions

Submission Detail

Program: [Example](#)

Contract Number: N0000-00-N-0000

Submission ID: 23468

Contract Task: Task 1

Contract

Submission

Files

Reviewers

Comments

Submission Files

	File Name	File Type	File Level	File Comment
	CPR Sample - RANGE Errors.xml	IPMR Cost	Total	

[View Submission CPRs](#)

Review level 1 CPR data to confirm correct data from EDI/XML submissions

Reviewer Files

There are no reviewer files uploaded for this submission.

Select a file to Upload

Caution: The total size of each file must be less than 300 mb.

File Comment:



PARCA EVM

Reviewing Submission Details

Submission Detail

Program: [Example](#)

Contract Number: N0000-00-N-0000

Submission ID: 23468

Contract Task: Task 1

Contract Submission Files Reviewers Comments

Submission Files

File Name	File Type	File Level	File Comment
CPR Sample - RANGE Errors.xml	IPMR Cost	Total	

[View Submission CPRs](#)

Reviewer Files

There are no reviewer files uploaded for this submission.

Select a file to Upload

Caution: The total size of each file must be less than 300 mb.

File Comment:

File Details

File Name	File Type	File Level
CPR Sample - RANGE Errors.xml	IPMR Cost	Total

Current Period Information

Report From: 5/26/1950 * To: 6/23/2050 *

Report Information

Program Name	Phase	Contract Number	Contract Type
DeathStar	RDT&E	N0000-00-N-0000	CPFF
Contractor	Maximum WBS Level	CPR ID	Final CPR
Rambo Systems	7	171173	Yes <input type="button" value="Remove Final CPR"/>

CPR Header Dollars in

Quantity	Share Above	Share Below	Original NCC	NCC
-1 *	-20 *	150 *	\$85,542	\$869,620,000 *
CBB	TAB	AUW	Contract Ceiling	Estimated Ceiling
\$869,620,100 *	\$102,892 *		\$95,338	\$95,438
Best Case EAC	Worst Case EAC	Most Likely EAC	Target Price	Estimated Price
\$147,181	\$156,067	\$147,829	\$86,962 *	\$87,062

Variances

All Complete	Cumulative Schedule	Cumulative Cost	Total Schedule	Total Cost
-\$42,145 ^	-\$7,943 ^	-\$35,704 ^	-\$7,943 ^	-\$35,704 ^

CPR Dates

Contract Start	Contract Definition	Planned Completion	Contract Completion	Estimated Completion
1/31/2050 *	3/8/1950 *	9/24/2050 *	12/31/2050 *	8/18/1950 *

Performance Measurement Baseline (PMB)

MR	BAC	EAC	BCWS	BCWP	ACWP	CPI	SPI
-\$558 *	\$102,334 *	\$144,479	\$99,435	\$91,492	\$127,196	0.719 ^	0.920 ^

Over Target Baseline (OTB)

OTB Date	BAC Adjustment	SV Adjustment	CV Adjustment	MR Adjustment
1/16/1950 *	\$15,229			\$601

Calculated Fields

DAMIR Validation Failures

Any failures listed below may prevent this data from being sent to the DAMIR system.

- Share Above (Contractor Share) between 0 and 100
- Share Below (Contractor Share) between 0 and 100
- Estimated Completion Date Must be on or After Start Date
- Management Reserve must be greater than or equal to 0
- Quantity must be greater than or equal to 0
- Target Price must be greater than or equal to NCC
- Management Reserve must equal TAB - BAC

Data Validation Warnings

Further warnings detected within the data.

- Report Period From must be after 1980 and before (Today's Date + 25 years)
- Report Period To Date must be after 1980 and before (Today's Date + 25 years)
- Contract Start Date must be after 1980 and before (Today's Date + 25 years)
- Contract Definition Date must be after 1980 and before (Today's Date + 25 years)
- Planned Completion Date must be after 1980 and before (Today's Date + 25 years)
- Completion Date must be after 1980 and before (Today's Date + 25 years)
- Estimated Completion Date must be after 1980 and before (Today's Date + 25 years)
- OTB Date must be after 1980 and before (Today's Date + 25 years)
- CBB is too large (larger than 100 Billion)

Navigate File Periods

1 of 1 >>

View	Report To	Final CPR
66	6/23/2050	Yes

Report Links

[Data Quality Validation](#)



Reviewing a Submission

Record your decision and make comments.

Contract Submission Files **Reviewers** Comments

Submission Reviewers

Reviewer	Organization	Role	Status	Status Date	Comment
David Augsburger	Tecolote Research	Lead Reviewer	Pending		
Damon Eckert	TEcolote	Lead Reviewer	Pending		
Reviewer EVM	DCARC	Lead Reviewer	Pending		
Eric Guerber	SPSG - Tecolote Research Inc.	Lead Reviewer	Pending		
Jen Horner	Tecolote Research, Inc.	Lead Reviewer	<input type="radio"/> Approved <input type="radio"/> Conditionally Approved <input type="radio"/> Rejected <input checked="" type="radio"/> Pending		
Burt LeClercq	Tecolote Research, Inc	Lead Reviewer	Pending		

Save

Lead Reviewer can change status of submission

Lead Reviewer Actions

Set Status to Submitting

Alert Managerial Oversight

Publish Submission

Reject Submission

Days To AutoPub: 10



**PARCA
EVM**

EVM-CR REPORTING COMPLIANCE AND DATA QUALITY

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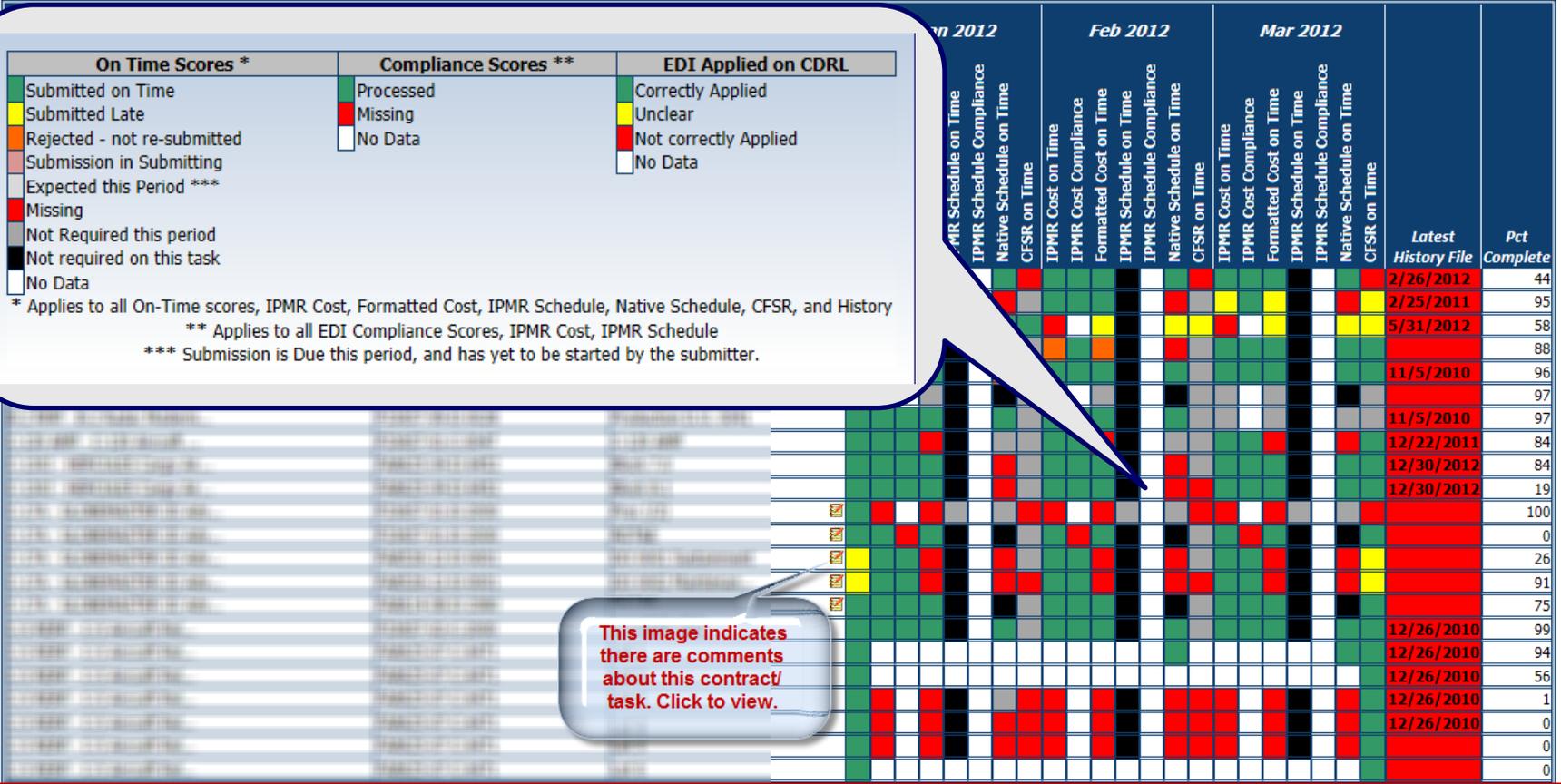
Reports & Metrics: Program Status

- ▶ PARCA provides the services the status of EVM-CR deliveries each month
 - Also has begun to engage directly with major performing contractors
- ▶ Delivery status and associated data quality metrics are part of the information reviewed at OSD in the DAES process
- ▶ EVM-CR does not reject files for data quality issues but denotes them for analyst understanding
 - Files that fail XML schema validation are not accepted



PARCA EVM

Reports & Metrics: Program Status



- ▶ Results will be displayed in a grid similar to that shown above for the specified time period.
- ▶ Legend displays color coding for various columns.

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PARCA EVM

Reports & Metrics: EVM-CR Dashboard

- Represents data delivery status across the EVM-CR

Performance Assessments and Root Cause Analyses

EVM EARNED VALUE MANAGEMENT

Home EVM Errors On Time Receipt User Guide Username: nelsond Roles: EVM_AnalystLimited, PARCA_Analyst DCARC Portal Home

Click to Toggle Filters Panel

Month: 9 Year: 2013 Range: (in months) 6 Percent Complete: Show All Exclude Programs > 90% Complete

Service: -Select a Service- Contractor: -Select a Contractor- Commodity: -Select a Commodity- Program: -Select a Program-

FRONT PAGE

% On Time Reports by Month

Month	Series 1 (%)	Series 2 (%)	Series 3 (%)
4/13	70	55	50
5/13	70	60	40
6/13	75	65	65
7/13	70	60	45
8/13	70	65	45
9/13	100	100	100

Reporting On Time September 2013

Category	Count
CPR	288
CFSR	221
IMS	203

Summary EDI Status Machine Readable CPRs September 2013

Status	Count
Pending (No Data)	270
Processed, No Errors	11
Processed, Minor Errors	0
Not Required / No Event	0
No EDI File Rec'd	7
Total	288

	CPR		CFSR		IMS	
	%	#	%	#	%	#
09/2013	100%	288	100%	221	99%	203
08/2013	72%	218	43%	41	62%	142
07/2013	72%	217	45%	41	60%	132
06/2013	74%	216	70%	169	63%	135
05/2013	70%	203	41%	37	60%	122

	CPR	CFSR	IMS
On Time	288	221	203
Late	0	1	1
Missing	1	0	2
Total	289	222	206

EDI Compliance Status	Count
Pending (No Data)	270
Processed, No Errors	11
Processed, Minor Errors	0
Not Required / No Event	0
No EDI File Rec'd	7
Total	288

Done Trusted sites | Protected Mode: Off

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Reports & Metrics: Formats Delivered

- ▶ This report will display the cost and schedule formats delivered by contract task for a given time period.

Formats Delivered

Please choose the time period for reporting.

Month: Year:

Select by

Service
 Program
 Contractor

Service Name	Program Name	Contract Number	Contract Task Name	Fmt 1	Fmt 2	Fmt 3	Fmt 4	Fmt 6	DAMIR Errors	Submission ID
ARMY	1	1	1	1	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	1	0	0	0	...
ARMY	1	1	1	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	0	0	0	0	...
ARMY	1	0	1	0	0	0	...
ARMY	1	0	0	0	0	0	...



**PARCA
EVM**

Reports & Metrics: Reporting Compliance and Data Quality Assessments Report

- ▶ The Reporting Compliance and Data Quality Assessments Report displays a snap-shot view of all programs and their current ratings within the EVM-CR system.

<i>EVM-CR Reporting Compliance and Data Quality Assessments</i>						Overall Assessment	CPR CDRL	EDI Applied On CPR CDRL	CFSR CDRL
Program	PNO	DAES Group	ACAT	Title	Finalized Date				
AFMATS - AFM - Assessment/Setup	115	445	45	AFMATS - AFM - Assessment/Setup	4/16/2014	Partial	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup				AFMATS - AFM - Assessment/Setup	4/15/2014	Non-compliant	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup		445	45	AFMATS - AFM - Assessment/Setup	4/25/2014	Ok	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup		445	45	AFMATS - AFM - Assessment/Setup	3/13/2014	Partial	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup									
AFMATS - AFM - Assessment/Setup				AFMATS - AFM - Assessment/Setup	3/20/2014	Good	Missing		Missing
AFMATS - AFM - Assessment/Setup				AFMATS - AFM - Assessment/Setup	2/26/2014	Partial	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup		445	45	AFMATS - AFM - Assessment/Setup	3/24/2014	Partial	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup				AFMATS - AFM - Assessment/Setup	3/20/2014	Partial	Missing		Missing
AFMATS - AFM - Assessment/Setup		445	45	AFMATS - AFM - Assessment/Setup	3/19/2014	Not Reporting			
AFMATS - AFM - Assessment/Setup		445	45	AFMATS - AFM - Assessment/Setup	3/17/2014	Not Reporting			
AFMATS - AFM - Assessment/Setup	115	445	45	AFMATS - AFM - Assessment/Setup	3/20/2014	Partial	Submitted	Correctly Applied	Submitted
AFMATS - AFM - Assessment/Setup				AFMATS - AFM - Assessment/Setup	3/20/2014	Partial	Submitted	Correctly Applied	Submitted



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EVM-CR DATA ANALYSIS & VIEWING

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Reports & Metrics

▶ Available from the EVM-CR Reports & Metrics tab:

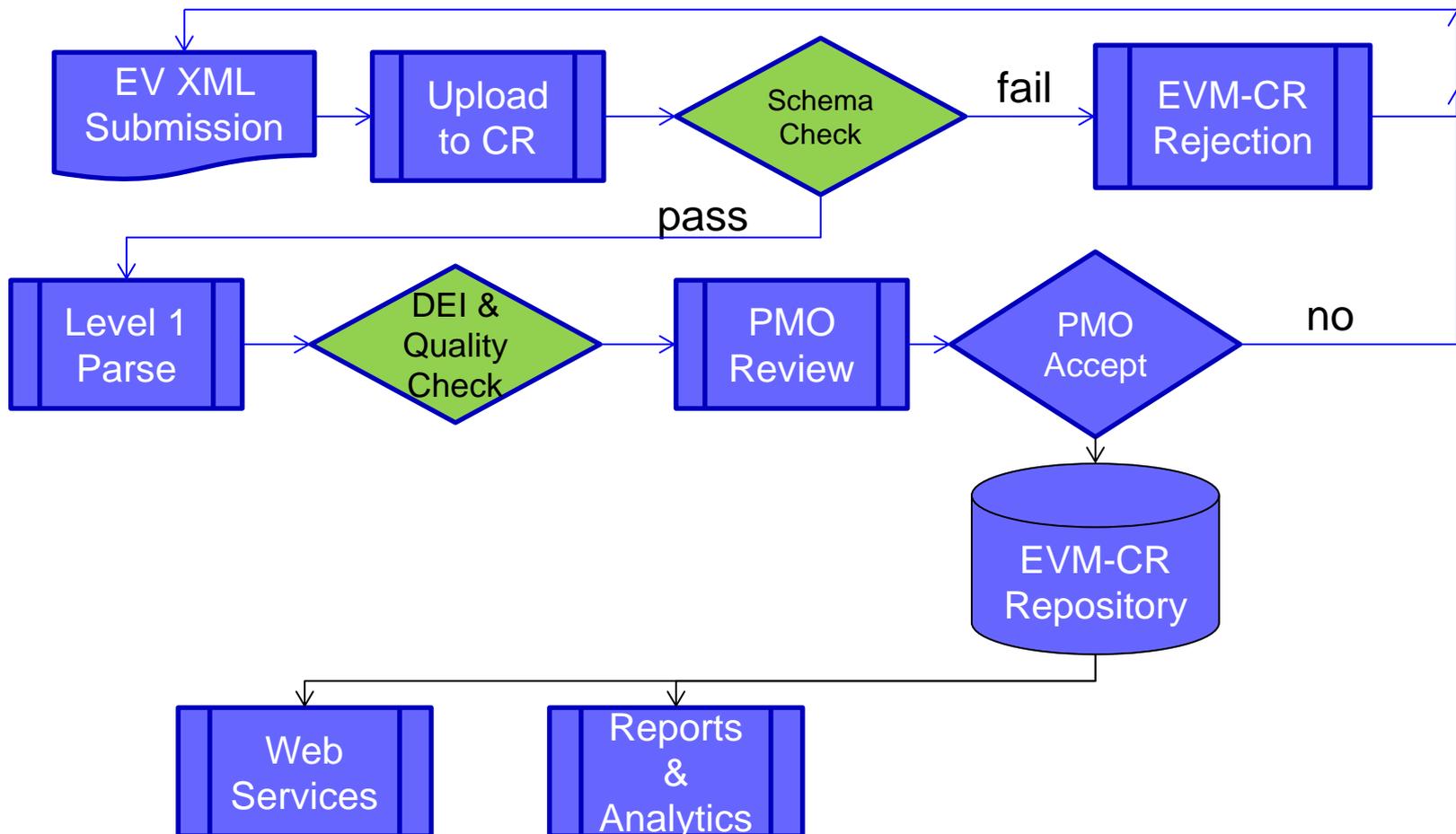
- CPR Data Report– The CPR Data Report allows you to view contract CPR Data for all available periods in a grid form.
- EVM-CR Reporting Compliance and Data Quality Assessment Report – This report displays a snap-shot view of assessments for all programs.
- Contract Task Files by Time Report – Shows the authoritative source of contract task CPR information by time period.
- Packaged Submission Documents – Analysts can request a bulk download of submissions and retrieve it here.
- Program Status – This report provides status of EVM-CR submissions.
- Formats Delivered – Shows the various IPMR formats received for a given contract task.

▶ Real Time Reporting and Analysis: CADE Total Access



EVM-CR Real-Time Data Processing

- ▶ IPMR Schema/DEI Compliance and Data Quality Checks Built Into Business Process





Reports & Metrics: Contract Task Files by Time Report (man behind the curtain)

- Used to map submission “files” into reporting and analysis functions
- The file ID shown in green represents the file that is the authoritative source for the time period.

Program: [blurred] Service: [blurred] Task: [blurred] Task: [blurred]											
Show only files contributing to the CPR Time picture <input type="checkbox"/>											
Task Files	Submission Files										
Periods/Submission ID	3016	4072	4377	4708	5021	5329	5765	6037	6995	8038	8369
File Information											
8/2008	83341*										
11/2008		85736*									
12/2008			86309*								
1/2009				87267*							
2/2009					87989*						
3/2009						86372*					
5/2009							89504	90740*			
8/2009									93530*		
11/2009										96520*	
12/2009											92453*
8/2010											
9/2010											
10/2010											
11/2010											
12/2010											
1/2011											
2/2011											
File ID	10370	14307	15488	16901	18132	19231	20958	22052	26136	30936	32470
File Name	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]	[blurred]
WBS Desc	True	True	True	True	True	True	True	True	True	True	True

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Reports & Metrics: CPR Data Report

When selecting the CPR Data Report you will be presented with a search/filter screen similar to that shown to the right. Enter search criteria, then click the program name. Once you select the task name, you will be presented with the report below.

CPR Data Selector

Search/Filter Programs

Program: Contract #: Commodity Group:

Submission ID: Service: DAES Group: ACAT:

[Hide Programs](#)

Programs

Program Name	PNQ	Contracts	With CPR Data
...	2	2	
...	1	1	
...	1	0	
...	1	1	
...	1	1	
...	1	1	
...	1	1	
...	1	1	
...	1	1	
...	1	1	

1 2 3 4 5 6 7 8

Year	Month	EffectiveDate	ReportFrom	StartDate	DefinitizationDate	CompletionDate	ECD	BudgetCompletionDate	Quantity	ShareAbove	ShareBelow	OriginalINCC	NCC	MostLikelyEAC	BestCaseEAC	WorstCaseEAC	TargetPrice	EstimatedPrice
2006	8	8/31/2006	7/28/2006	7/14/2006	7/14/2006	6/30/2011	6/30/2011	6/30/2011		25	25							
2006	9	9/28/2006	9/1/2006	7/14/2006	7/14/2006	6/30/2011	6/30/2011	6/30/2011		25	25							
2006	10	10/26/2006	9/29/2006	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2006	11	11/30/2006	10/27/2006	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2006	12	12/21/2006	12/1/2006	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	1	1/25/2007	12/22/2006	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	2	2/22/2007	1/26/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	3	3/29/2007	2/23/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	4	4/26/2007	3/30/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	5	5/31/2007	4/27/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	6	6/28/2007	6/1/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	7	7/26/2007	6/29/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							
2007	8	8/30/2007	7/27/2007	7/14/2006	7/14/2006	9/30/2011	9/30/2011	9/30/2011		25	25							



PARCA EVM

CADE Total Access

Real-time charting and reporting, integrating data across the enterprise

Knowledge Portal | DCARC CAPE | **CADE Total Access**
FOR OFFICIAL USE ONLY / PROPRIETARY DATA

CADE PORTAL | SEARCH PROGRAMS | DASHBOARD | RETRIEVE FILES | TOOLS | REFERENCES | CONTACT US | Log

USS Voyager | Program-Level | EVM | CSDR | O & S

USS Voyager

Group	ACAT Category	Latest SAR	Acq Cost (\$M)	Quantity
P	ID	Dec 2012	13,390.5	6

Factor	Service	Contract Type	Active EVM Efforts	Active CSDR Plans *
Academy	AIR FORCE	FFP		
Academy	AIR FORCE	CPIF/FFP/PPAF		
Academy	AIR FORCE	CPIF/FFP/PPAF		

* Only displays post-2008 CSDRs. For access to all CSDRs, navigate to the DACIMS Library from the [CADE Portal](#)

CADE PORTAL | SEARCH PROGRAMS | DASHBOARD | RETRIEVE FILES | TOOLS | REFERENCES | CONTACT US | jmcgahan | Log Out

USS Voyager | Program-Level | EVM | CSDR | O & S

Show only Contracts with data available

Contract Number	Contract Task	# Periods	Last Available	Last Refreshed
NCCC06-01-D-74656	Task 1	15	3/31/2010	1/26/2012

Saved Views:

Performance Over Time

Element Performance Comparison

Gold Card

TCPI

EAC Growth Rate

Management Reserve

Budget Shifting

Planning Performance

WBS Contribution

USS Voyager
Obtain Annual Funding Detail from DAMIR
RDTE(TYS): 7,446.3M
Procurement(TYS): 5,944.2M
Units: 6
[View Annual Funding Detail](#)

Milestones
Program Milestones from DAMIR
Milestone APB Obj. APB Thres Current
AEHF SV 5-6 ... May 2012 May 2012 May 2012
IOC Jun 2014 Dec 2014 Jun 2015
[View and Plot Milestones](#)

Key Events
Key Events list maintained by community
Sep 2009 - Test Key Event
Jan 2014 - Jen's Test Event II
Jan 2014 - Key Event Test 2
Mar 2010 - MS B (Actual)
[View and Plot Key Events](#)

Community Knowledge
Share information related to this program
jthorner shared a file. 1/23/2014
VD Test User shared a file. 1/17/2014
grayk shared a link. 1/16/2014
VD Test User shared a file. 1/13/2014
[View Community Knowledge](#)

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IPMR DATA UTILITIES



Current IPMR Submission Status

	One Or More Contract/Tasks Requiring IPMR					Total With IPMR Required
	Cost			Schedule		
	Readable UN/CEFACT	Unreadable Un/CEFACT	Other XML/EDI (Readable)	Other XML/EDI Unreadable	Readable UN/CEFACT <small>(whether properly marked or not)</small>	
Number of Programs	3	1	13	n/a	4.25	17
Number of Contracts	3	1	15	n/a	4.5	23
Number of Contract/Tasks	3	2	16	n/a	5	25

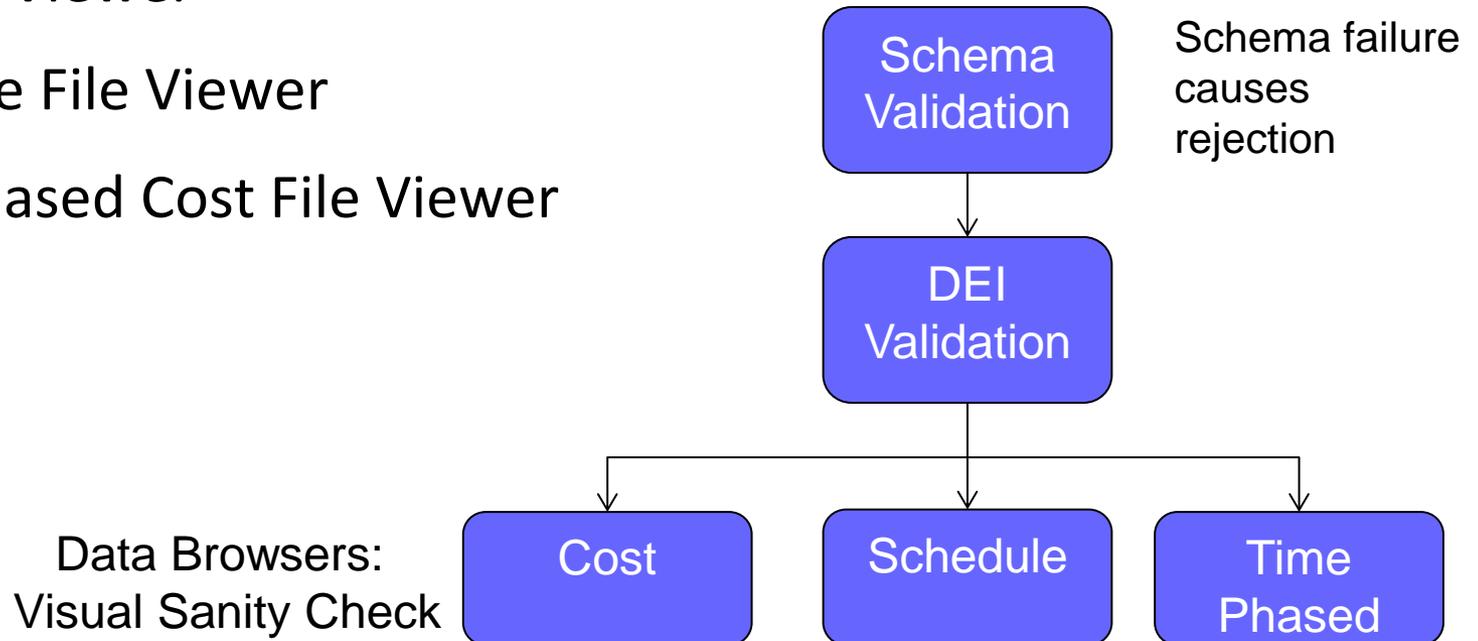
▶ Legend:

- Readable UN/CEFACT: Passes schema validation and sufficient DEI to allow parsing
- Unreadable UN/CEFACT: Failed attempt to provide readable UN/CEFACT XML; typically fails schema validation
- Other XML/EDI (Readable): typically means a “winsight XML”
- Other XML/EDI (Unreadable): Attempted submission of legacy XML but invalid format
- Total With IPMR Required: Number or reporting activities with IPMR identified.



IPMR XML File Utilities Overview

- ▶ Schema/DEI Compliance Validator
- ▶ CPR File Viewer
- ▶ Schedule File Viewer
- ▶ Time-Phased Cost File Viewer

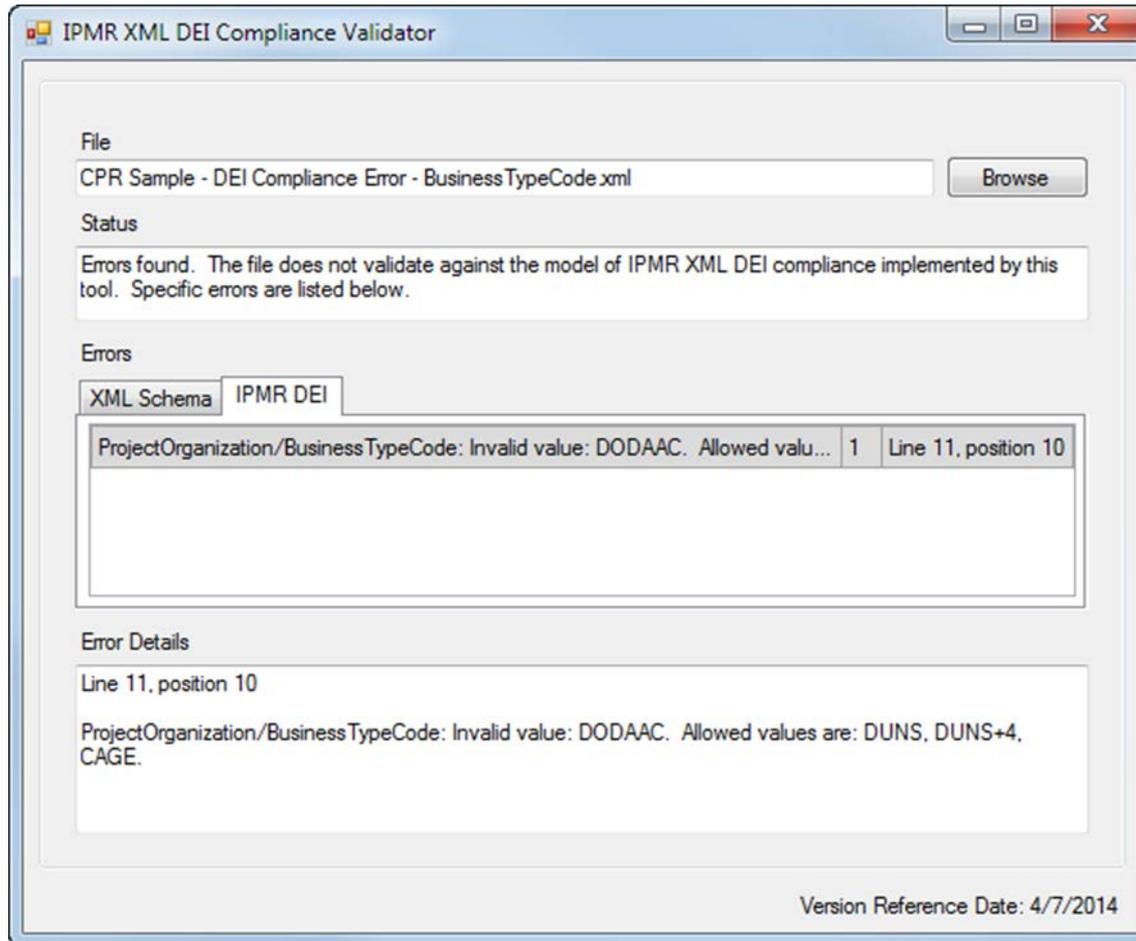


Encapsulate software libraries used by EVM-CR

*** Currently available for external test team ***



Schema / DEI Validator



- ▶ Validates against:
 - UN/CEFACT XML schema
 - IPMR XML DEI
- ▶ Implements model of DEI compliance:
 - Model comprises rules inferred from DEI
 - Model is not definitive or exhaustive
 - Model will be updated over time



PARCA EVM

IPMR Data Viewers: Cost

CPR File Viewer

File Navigate Options Help

Open Files EVM Validity Checks Browse File Views Custom Views Export to Excel

(F1) Header (F1) WBS Elements (F1) Summary Elements (F3) Baseline (F4) Staffing

ReportDate	Element Name	Element ID	Reporting Level	Cum CPI	Cum SPI	Cum BCWS	Cum BCWP
2010-06-23	Weapon System	1	2	0.725	0.955	88,403,104	84,401,916
2010-06-23	All Up Ons (AUO) Space Vehicle	11	3	0.683	0.946	60,652,325	57,381,444
2010-06-23	DeathStar Stuff	111	4	0.825	1.00	2,032,020	2,032,020
2010-06-23	Spaceframe Structure	1110	5	0.825	1.00	2,032,020	2,032,020
2010-06-23	Spaceframe Structure	1110X	6			0	0
2010-06-23	Spaceframe Design NRE	1110XA1CG	6	0.825	1.00	2,031,682	2,031,682
2010-06-23	Spaceframe Design RE	1110XA1CH	6				
2010-06-23	Interconnect Design NRE	1110XA1CI	6	0.282	1.00	338	338
2010-06-23	Interconnect Design RE	1110XA1CJ	6				
2010-06-23	Guidance Electronics Unit (ZZZ)	112	4	0.698	0.941	34,308,362	32,276,075
2010-06-23	Guidance Electronics Unit (ZZZ)	1120	5	0.449	0.904	7,911,061	7,154,889
2010-06-23	Guidance Electronics Unit (ZZZ)	1120X	6	0.67	0.889	1,290,138	1,146,498
2010-06-23	ZZZ Algorithm Development (GNC)	1120XA1DM	7	0.67	1.00	1,146,498	1,146,498
2010-06-23	CLIN 3 ZZZ Software	1120XA2DH	7			143,640	0
2010-06-23	Space Vehicle Electrical Support	1120XA1CF	6	1.687	1.00	373,386	373,386

WBS Element Select Options
Filter by reporting level: 2 (2) 3 (6) 4 (11) 5 (12) 6 (94)
Total WBS Rows: 148

Cumulative CPI and SPI Thresholds
Small variation - highlight yellow and bold values that vary from 1 by more than:
Large variation - highlight red, bold, and underline values that vary from 1 by more than:
 Highlight

Element Count: 148 of 148
Summary EAC: \$143,665,020
 Freeze element name column

Choose a file: CPR Sample.xml Choose a period: 2010-06-23

Version 1.0.3.4

Program Name: DeathStar Contract Number: N0000-00-N-0000 CPR Sample.xml

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IPMR Data Viewers: Schedule

IPMR XML IMS File Viewer

Open Files | Browse File Data | About

IMS Sample.xml

Export To Excel: Current Table | All Tables

Report | Project | Calendars | **Tasks** | Task Outline | Resources | Resource Assignment

Row	ID	Name	Description	Task Type	Pre (by
1	1	Sea System Sch...		Summary Task	
2	2	Contract Mileston...		Summary Task	
3	3	Contract Award		Milestone	
4	4	CWBS Index and...		Milestone	3FS
5	5	Initial Report		Activity	4FS
6	6	Interim Report 1		Activity	5FS
7	7	Interim Report 2		Activity	6FS
8	8	Interim Report 3		Milestone	7FS
9	9	Final Report		Milestone	17F
10	10	Production Milest...		Summary Task	
11	11	Start of Construct...		Milestone	
12	12	Begin Keel Laying		Milestone	
13	13	Begin Main Engin...		Milestone	
14	14	Launch Readine...		Milestone	
15	15	Initial Operation C...		Milestone	
16	16	Start Final Outfit		Milestone	
17	17	Final Contract Tri...		Activity	16F

Task

Row	1
ID	1
Name	Sea System Schedule
Description	
Task Type	Summary Task
Predecessors (by row)	
Successors (by row)	
WBS Data Node ID	
IMP Data Node ID	
OBS Data Node ID	
SOW Data Node ID	
SUB Data Node ID	
Risk Level Description	
Calculated Completion Pe	0%
Assessed Completion Per	0%
Priority Ranking	
Earned Value Method	
Milestone Level	
Free Float Duration	0 days
Total Float Duration	0 days
Milestone Weight	
Total Duration	1,308 days
Remaining Duration	1,303.24 days
Critical Path Indicator	True



IPMR Data Viewers: Time Phased Cost

IPMR XML Time-Phased Cost File Viewer

Open Files | Browse File Data | About

TPC Sample.xml

Header | Summary Costs | WBS Costs

By Period | By Element

Units: Dollars

Name	End Date	WBS Code	Name	BCWS	BC
Historical Period	03/25/2007	1	Weapon System		
Historical Period	04/22/2007	11	All Up Ons (AUO) Space Vehicle		
Historical Period	05/20/2007	111	DeathStar Stuff		
Historical Period	06/24/2007	1110	Spaceframe Structure		
Historical Period	07/22/2007	1110X	Spaceframe Structure		
Historical Period	08/19/2007	1110XA1CG	Spaceframe Design NRE	346,201	
Historical Period	09/23/2007	1110XA1CH	Spaceframe Design RE		
Historical Period	10/21/2007	1110XA1CI	Interconnect Design NRE	338	
Historical Period	11/18/2007	1110XA1CJ	Interconnect Design RE		
Historical Period	12/31/2007	112	Guidance Electronics Unit (ZZZ)		
Historical Period	01/27/2008	1120	Guidance Electronics Unit (ZZZ)		
Historical Period	02/24/2008	1120X	Guidance Electronics Unit (ZZZ)		
Historical Period	03/30/2008	1120XA1DM	ZZZ Algorithm Development (GNC)		
Historical Period	04/27/2008	1120XA2DH	CLIN 3 ZZZ Software		
Historical Period	05/25/2008	1120XA1CF	Space Vehicle Electrical Support	22,784	
Historical Period	06/29/2008	1120XA1CK	Power Development NRE	46,161	
Historical Period	07/27/2008	1120XA1CL	Power Development RE		
Historical Period	08/24/2008	1120XA1DA	Time Port Development	189,374	
Historical Period	09/28/2008				