

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



Los Angeles, California

November 13 – 15, 2013



Agenda: November 13

OSD CAPE

8:00 – 9:00 Combined Introduction

9:00 – 10:00 Special Topics

10:00 – 10:15 BREAK

DCARC: CSDRs

10:15 – 10:30 [CSDR Overview](#)

10:30 – 10:45 [Contracting and Legal Foundations](#)

10:45 – 11:45 [CSDR Planning](#)

11:45 – 12:45 LUNCH

12:45 – 1:00 [CSDR Planning Demonstration](#)

1:00 – 2:00 [CSDR Reporting & Validation](#)

2:00 – 2:15 BREAK

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

2:45 – 3:45 [Systems and Tools](#)

3:45 – 4:15 [Summary and Wrap Up](#)



Agenda: November 14

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PARCA: EVM

8:00 – 3:00

EVM

EVM Data Requirements

IPMR

Format Content

Tailoring

Compliance and XML Validation

EVM-CR

Submission Process

Data Analysis and Viewing

Data Delivery Status

PARCA Performance Assessments

3:00 – 4:00

Combined Conclusion

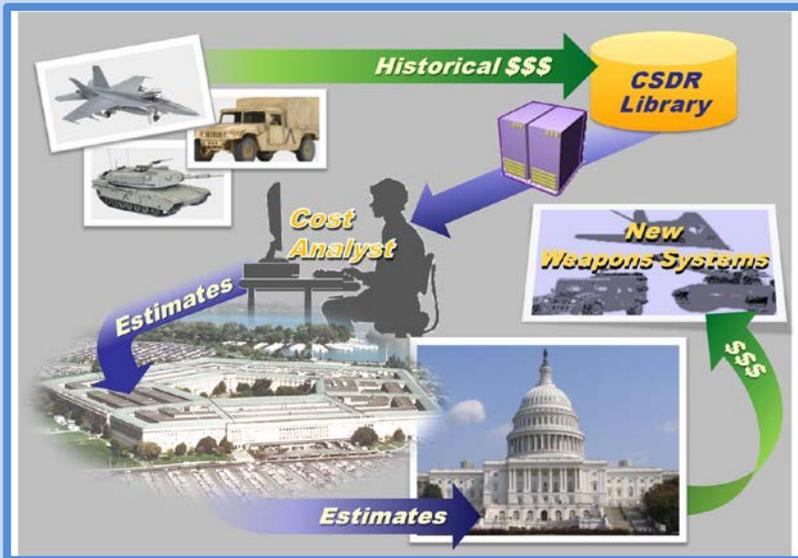


Data for Cost Estimating & Program Management

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Defense Automated Cost Information Management System (DACIMS)

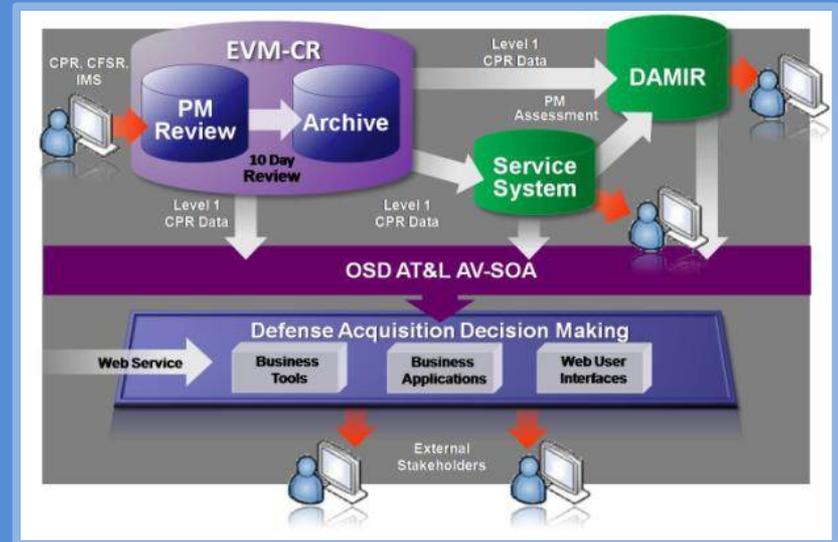
Cost and Software Data Reports (CSDR)



Collect data to support cost estimating

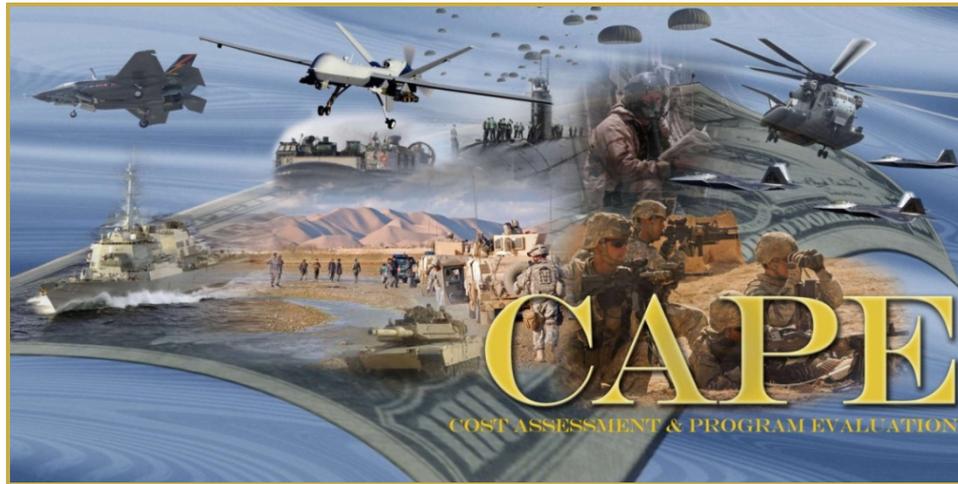
Earned Value Central Repository (EV CR)

Integrated Program Management Report (IPMR)



Collect data to support program management

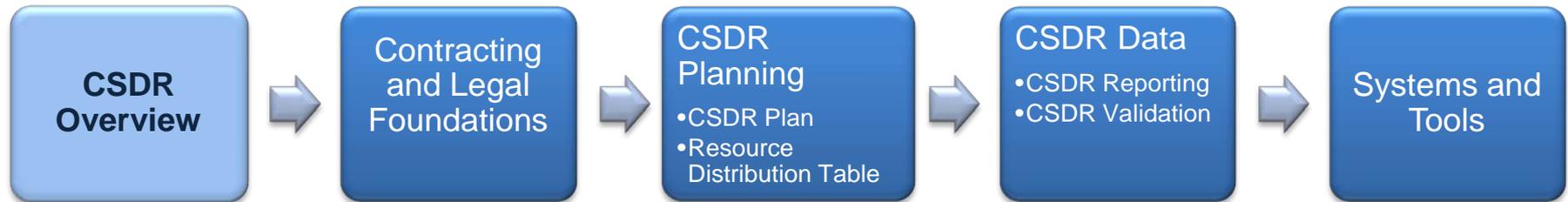
Cost and Software Data Reporting





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

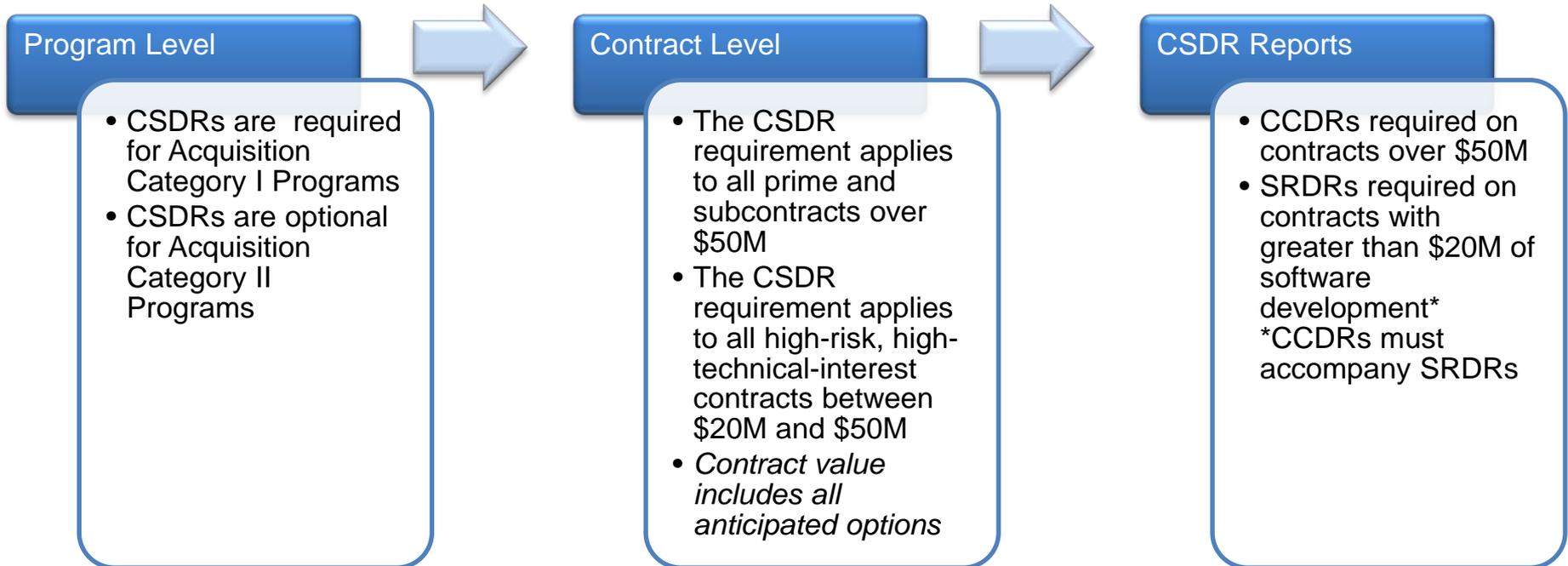


CSDR Applicability

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Who must submit CSDRs?

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

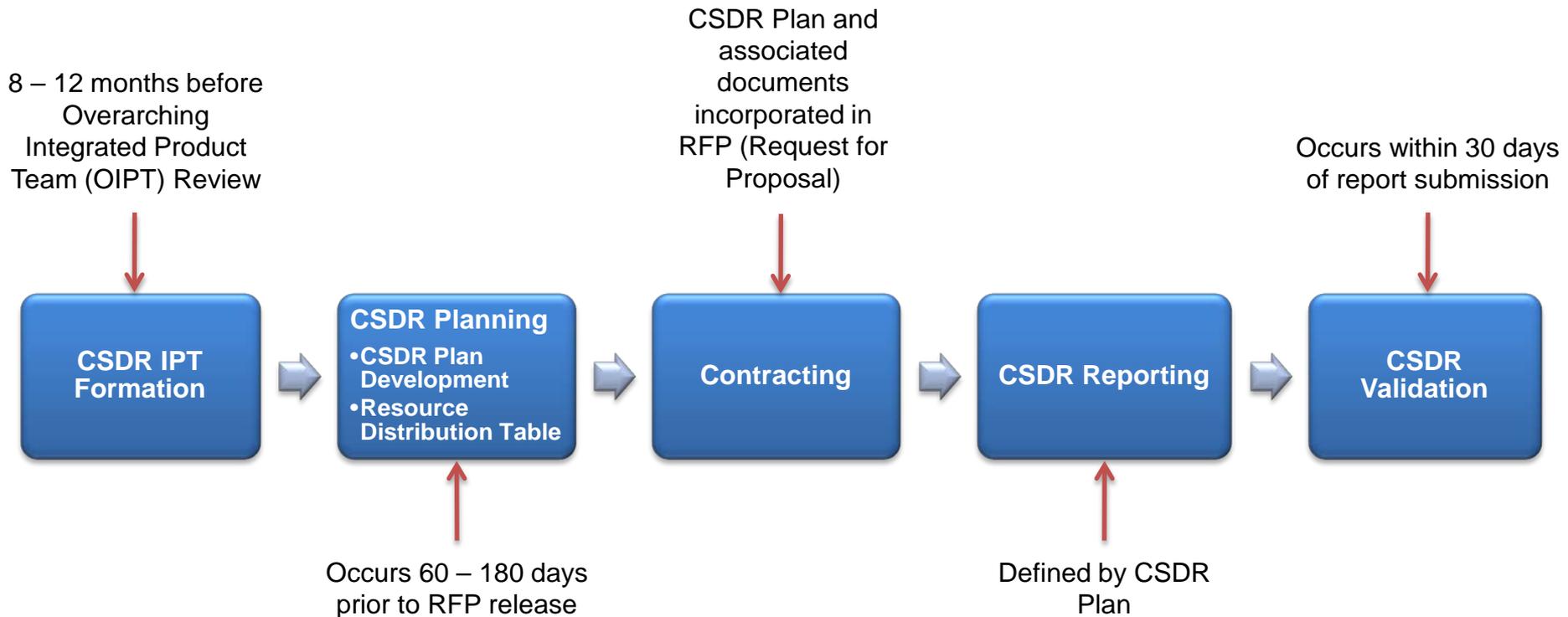


CSDRs may be required for contracts less than \$20M based on cost community needs



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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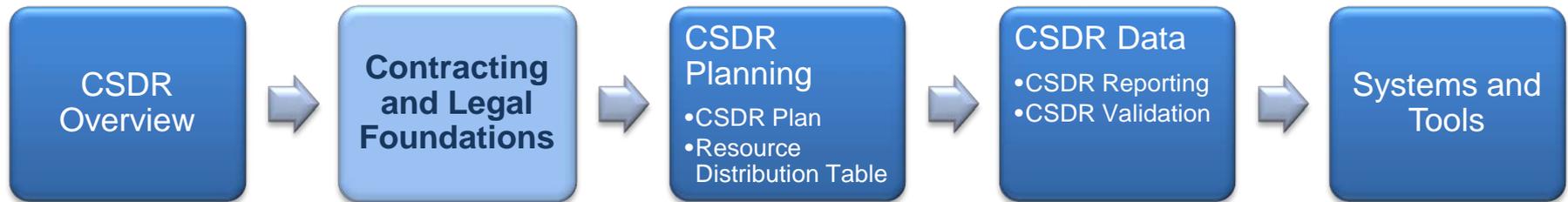
CSDR IPT Members

- **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
- **Reporting Contractors** – Submit CSDRs in accordance with CSDR Plans to DCARC for review and approval
- **PARCA** – Manages 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

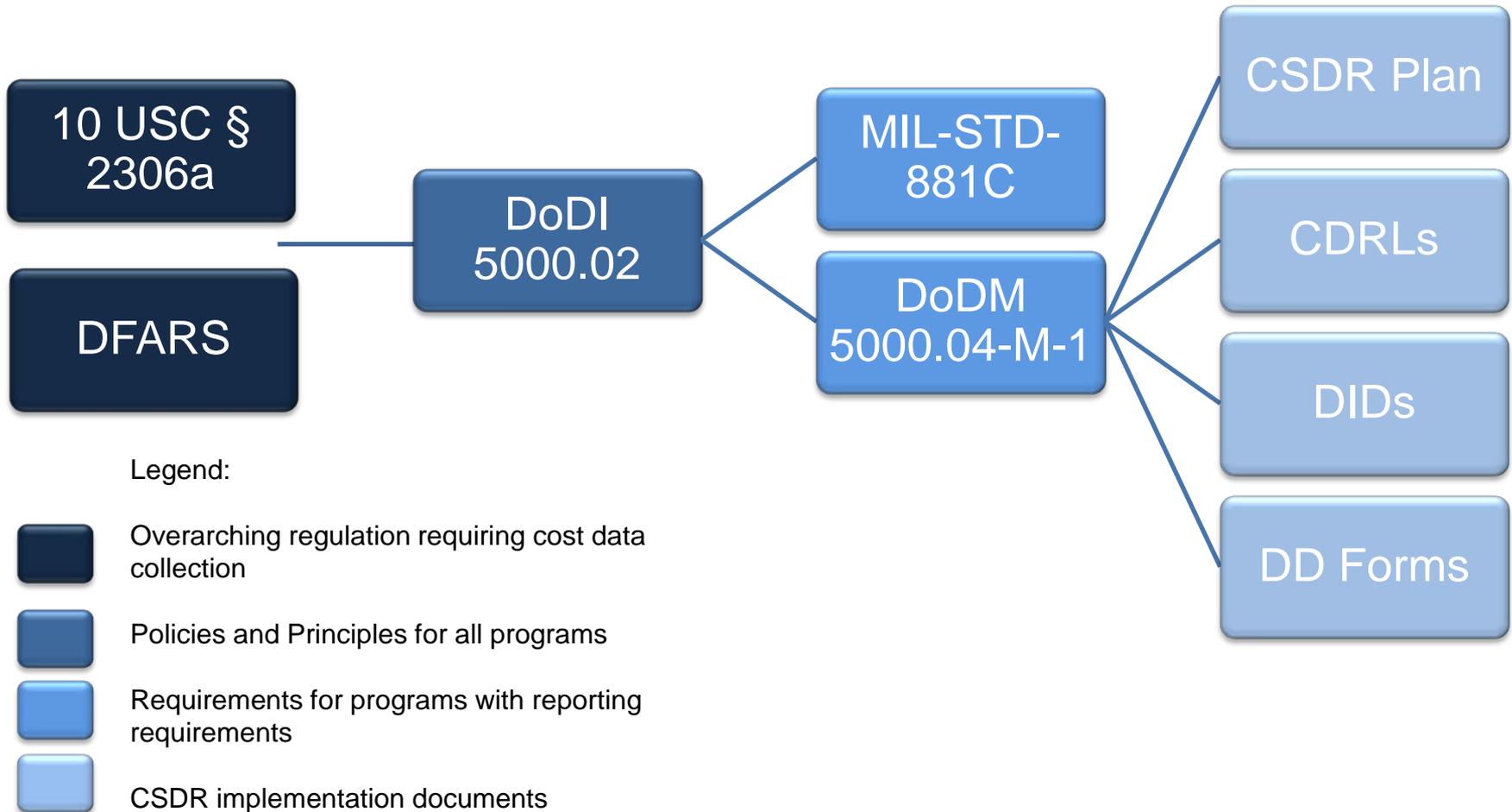
The CSDR plans and requirements must be included in the Request for Proposal (RFP). This allows the contractor to map their accounting system to collect costs in accordance with the data reporting structure.



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 Officer Responsibilities

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- As a result of the CSDR DFARS clause, the Contracting Officer's support is needed to:
 - Implement CSDR reporting on all contracts that meet CSDR requirement thresholds
 - Consult with the DCARC to determine that the contractor has proposed a standard CSDR system that complies with the CSDR plan
 - Check proposed CSDR system for compliance with the CSDR Manual and DIDs
 - Conduct a post-award meeting to address the CSDR requirement

http://www.acq.osd.mil/dpap/dars/dfars/html/current/242_5.htm#242.503

(clause 242.503-2)



Contracting Summary

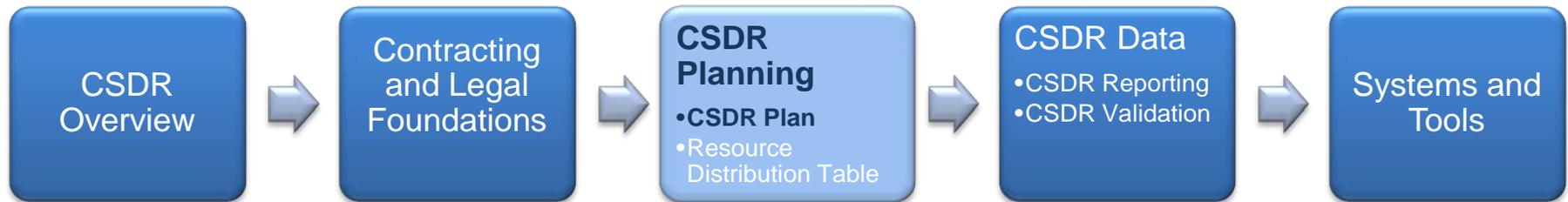
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- Ensuring the CSDR requirement is in the RFP and put on contract at award is essential to:
 - Confirming the cost accounting system is setup to collect costs accurately in accordance with the DIDs and CSDR plan
 - Avoiding additional costs caused 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



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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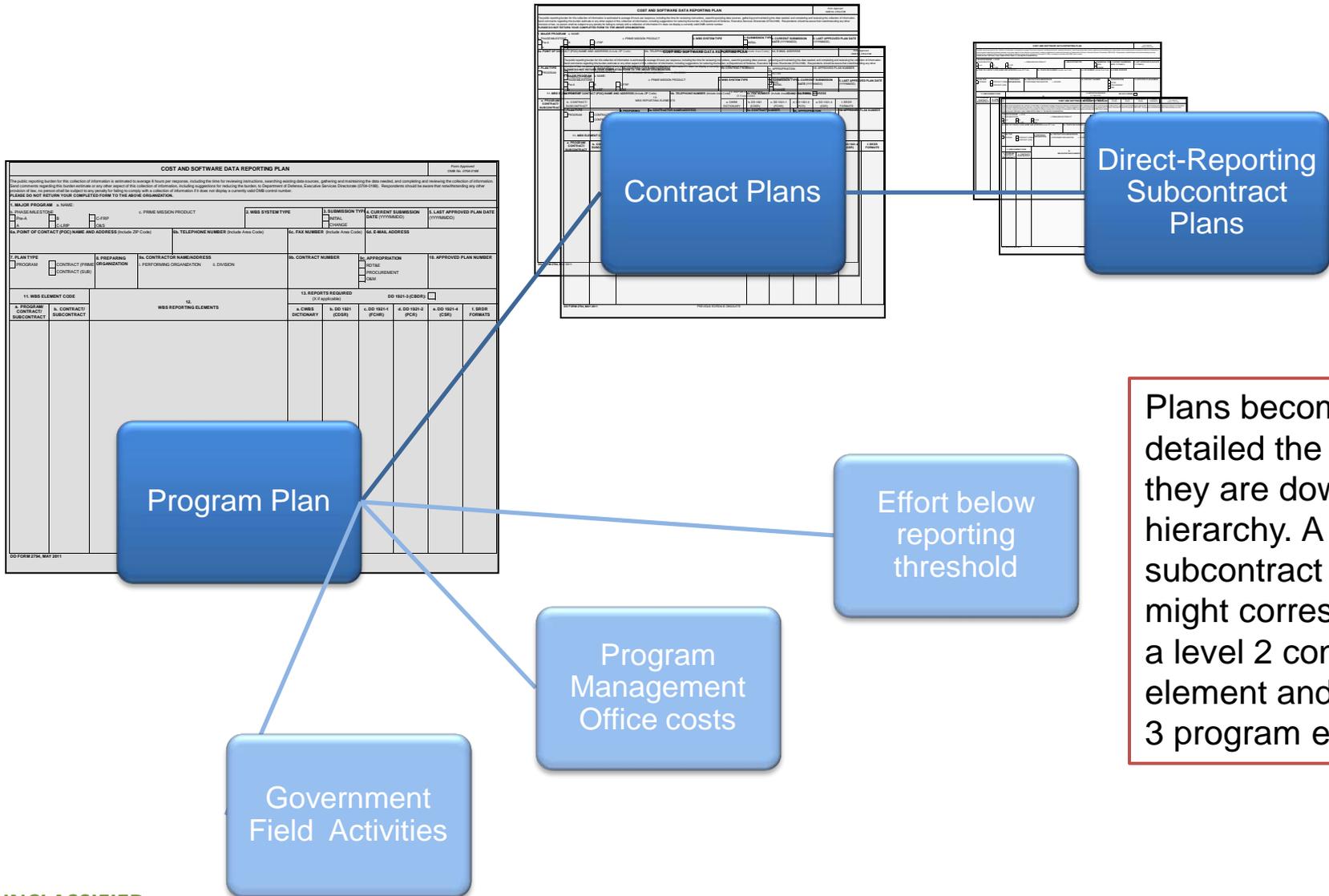
What is a CSDR Plan?

- 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)

OSD CAPE

- 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 checked="" type="checkbox"/> A <input checked="" type="checkbox"/> C-LRP <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@raww.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 FMA-259		9a. CONTRACTOR NAME/ADDRESS i. PERFORMING ORGANIZATION: Fake Company ii. DIVISION: Missiles and Fire Control 1151 E Fake St			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	12. WBS REPORTING ELEMENTS										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													
1.1	1.1	Air Vehicle	X	X	X													X
1.1.1	1.1.1	Airframe	X	N/A	N/A													X
1.1.2	1.1.2	Propulsion Subsystem	X	N/A	N/A													X
1.1.3	1.1.3	Power and Distribution	X	N/A	N/A													X
1.1.4	1.1.4	Guidance	X	X	X													X
1.1.4	1.1.4.1	Guidance Software (Unique)	X	X	X													X
1.1.4	1.1.4.2	Guidance Software (FMS Unique)	X	X	X													X
1.1.4	1.1.4.3	Guidance Software Development (Large Target Unique)	X	X	X													X
1.1.5	1.1.5	Navigation	X	N/A	N/A													
1.1.6	1.1.6	Controls	X	N/A	N/A													
1.1.7	1.1.7	Communications	X	N/A	N/A													
1.1.8	1.1.8	Payload	X	N/A	N/A													
1.1.9	1.1.9	Reentry System	X	N/A	N/A													
1.1.10	1.1.10	Post Boost System	X	N/A	N/A													
1.1.11	1.1.11	Ordnance Initiation Set	X	N/A	N/A													
1.1.12	1.1.12	On Board Test Equipment	X	N/A	N/A													
1.1.13	1.1.13	On Board Training Equipment	X	N/A	N/A													
1.1.14	1.1.14	Auxiliary Equipment	X	N/A	N/A													
1.1.15	1.1.15	Air Vehicle Software	X	X	X													X
1.1.16	1.1.16	Air Vehicle Integration, Assembly, Test and Checkout	X	X	X													X
1.2	1.2	Encasement Device	X	N/A	N/A													
1.3	1.3	Command and Launch	X	N/A	N/A													
1.4	1.4	Missile System Software	X	X	X			X										X
1.5	1.5	Missile System Integration, Assembly, Test and Checkout	X	X	X			X										
1.6	1.6	Systems Engineering	X	X	X			X										
1.7	1.7	Program Management	X	X	X			X										
1.8	1.8	System Test and Evaluation	X	X	X			X										
1.9	1.9	Training	X	N/A	N/A			X										
1.10	1.10	Data	X	N/A	N/A			X										
1.11	1.11	Peculiar Support Equipment	X	N/A	N/A			X										
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	X	N/A	N/A			X										
1.13	1.13	Operational/Site Activation	X	N/A	N/A			X										
1.14	1.14	Industrial Facilities	X	N/A	N/A			X										
1.15	1.15	Initial Spares and Repair Parts	X	N/A	N/A			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. A S 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

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 CSDR submission to reflect the corresponding LRIP for the submission. (E.g., The name of WBS element 1.0 for submission # 4 must state, "JAZZ-49 - Air-to-Air Missile (LRIP 1)).

4. For WBS element 1.8 (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 (Block 15)

Blocks 1 – 10: CSDR Planning: Metadata

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COST AND SOFTWARE DATA REPORTING PLAN					Form Approved OMB No. 0700-0033		
<small>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 Service 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.</small>							
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
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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"/> 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, is the date the plan was finalized previously
- **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. 0700-0055					
<p>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 Service 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.</p>										
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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



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

What is a Data Reporting Structure?

- A data reporting structure is a standard, hierarchical, product-oriented structure that provides breakout of comprised of hardware, software, services, data and facilities
- MIL-STD-881C is the starting point for all CSDR data reporting structures
- CSDR data reporting structures differ from EVM work breakdown structures based on the different levels of detail needed for cost estimating vs. management purposes

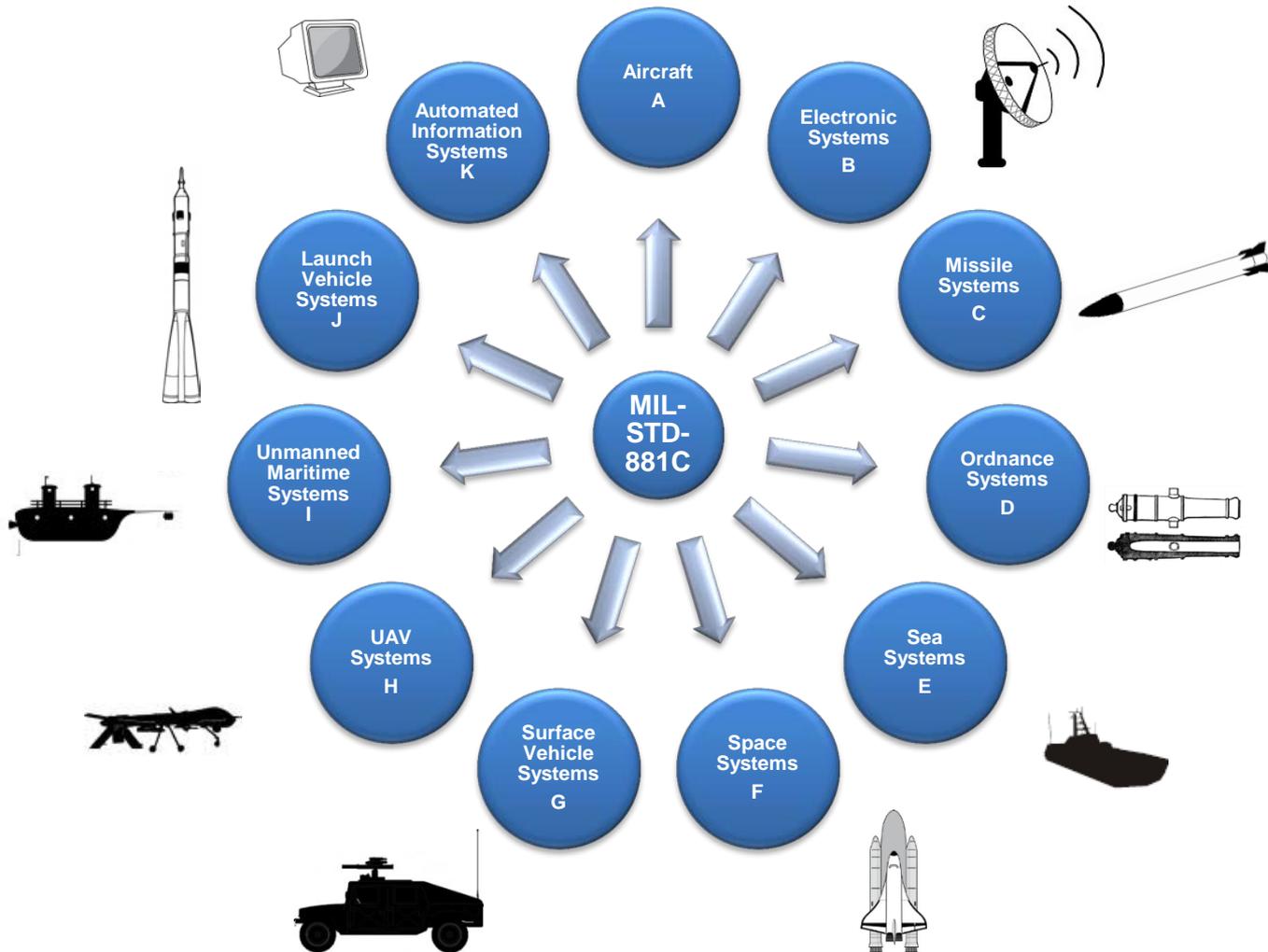
13. REPORTS REQUIRED	1. DD 1921-3 (CSDR)	2. DD 1921-1 (FCHR)	3. DD 1921-2 (PCR)	4. DD 1921-4 (CSR)	5. SDR FORMATS
1. CWBS DICTIONARY	X	N/A			X
2. DD 1921-3 (CSDR)	X	X			X
3. DD 1921-1 (FCHR)	X	X			X
4. DD 1921-2 (PCR)	X	X			X
5. DD 1921-4 (CSR)	X	X			X
6. SDR FORMATS	X	X			X



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 costs 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 (Forward Fuselage)
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.2	Avionics
1.1.2.1	Avionics Integration, Assembly, Test, and Checkout
1.1.2.2	Communication/Identification
1.1.2.3	Navigation/Guidance (Flight Aids/Diagnostics)
1.1.2.4	Mission Computer/Processing
1.1.2.5	Fire Control
1.1.2.6	Data Display and Controls
1.1.2.7	Survivability
1.1.2.7.1	AEA Kits
1.1.2.7.2	Group A Kits
1.1.2.8	Reconnaissance

10000	Aircraft System
11000	Air Vehicle
11100	Avionics
11110	Avionics Integration, Assembly, Test, and Checkout
11120	Communication/Identification
11130	Navigation/Guidance
11131	Flight Aids/Diagnostics
11140	Mission Computer/Processing
11150	Fire Control
11160	Data Display and Controls
11170	Survivability
11171	AEA Kits
11172	Other Survivability
11180	Reconnaissance
11190	Automatic Flight Control
111A0	Health Monitoring System
111B0	Stores Management
111C0	Avionics Software
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-77
- **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)

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

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

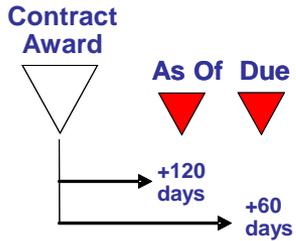
- Lists submission events for the contract/subcontract
- Always consist of Dictionary, 1921, and 1921-1 reports
- As of dates represent the end date of the data (e.g., if LRIP 1 is delivered 20140630, the data for "Final Report: LRIP 1" report will be as of this date)
- Due dates are 60 days after as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

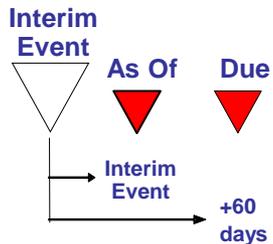
Initial Reporting



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

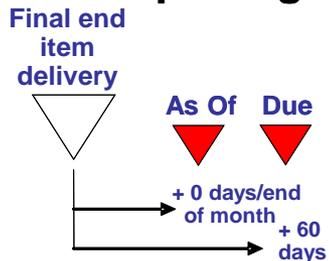
Interim Reporting



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 annual 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 and an 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 CCDR submission to reflect the corresponding LRIP for the submission. (E.g., The name of WBS element 1.0 for submission # 4 must state, "JAZZ-49 - Air-to-Air Missile (LRIP 1)).

4. For WBS element 1.8 (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 2014

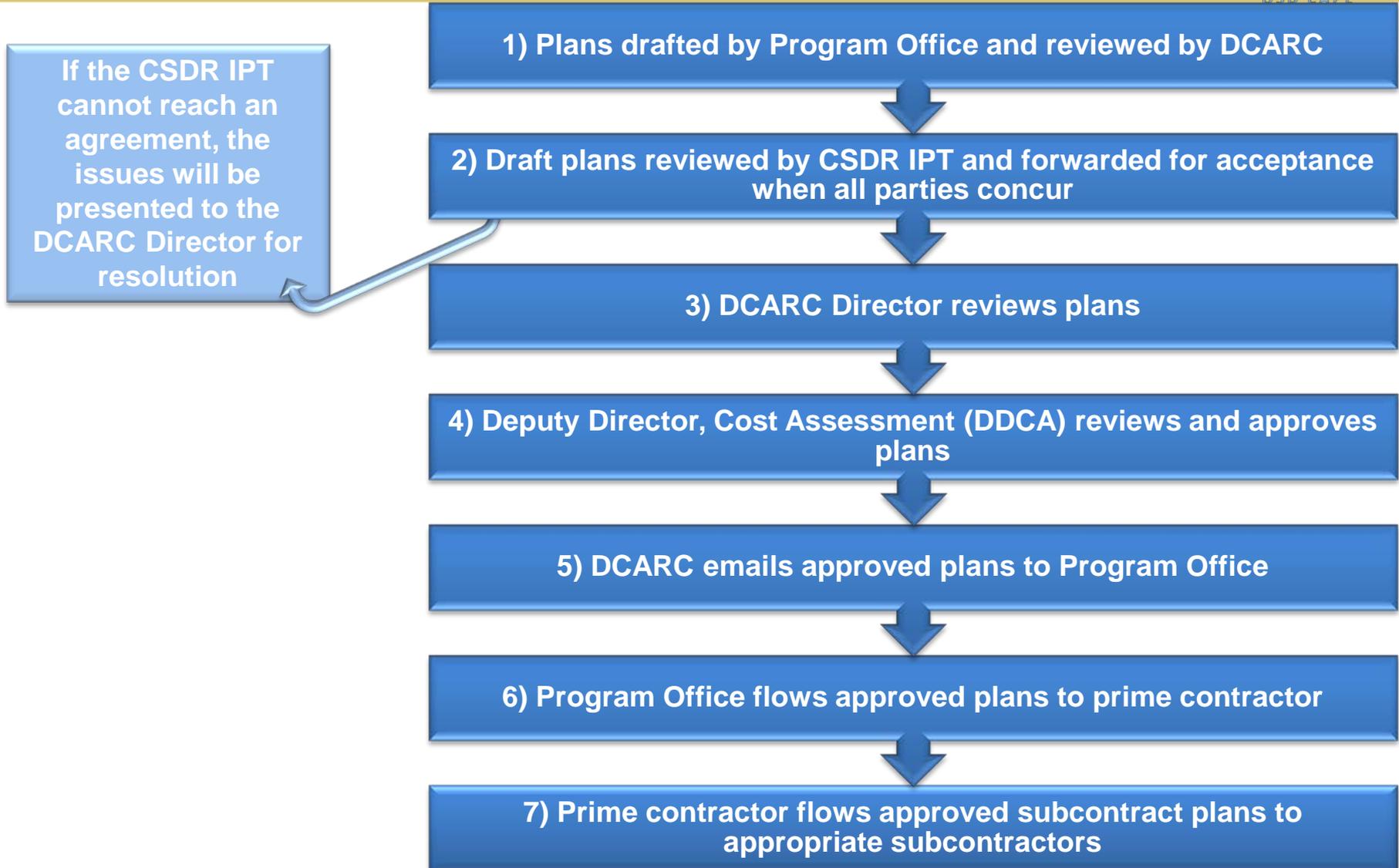
PREVIOUS EDITION IS OBSOLETE

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
Contracting Officer Name	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
- 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

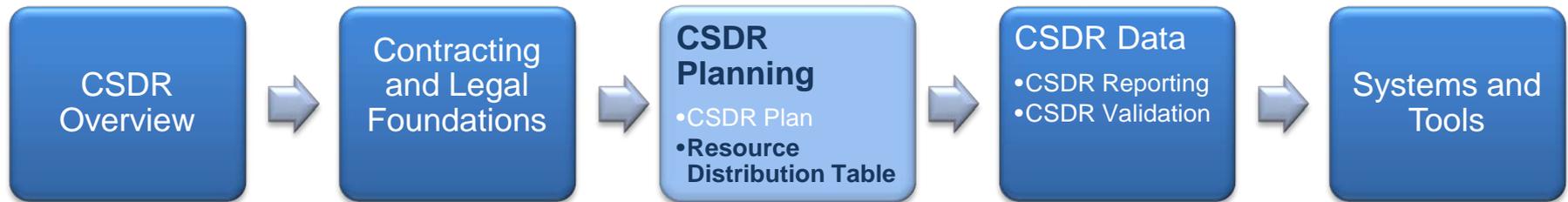
OSD CAPE

- CSDR plans are essential to receiving the cost data needed at the correct level of detail by identifying:
 - Data reporting structure element 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



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 values 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 tier subcontractors that pass the reporting threshold



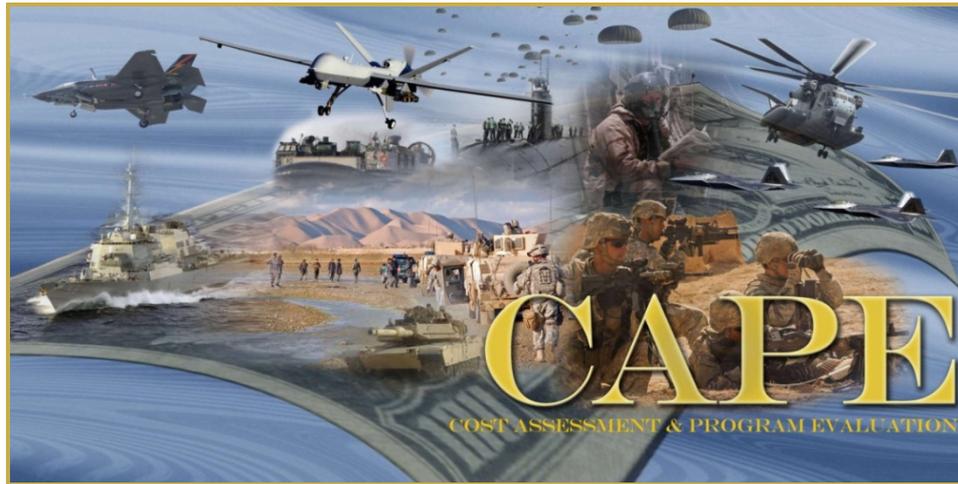
RDT Summary

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 Plan and RDT Development

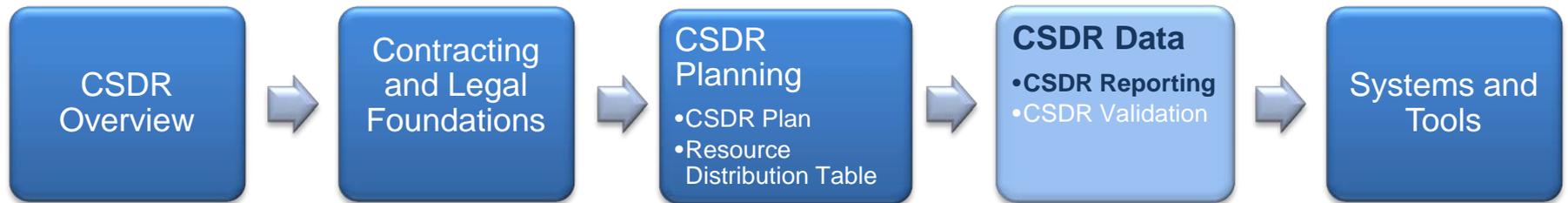
OSD CAPE

- 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



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

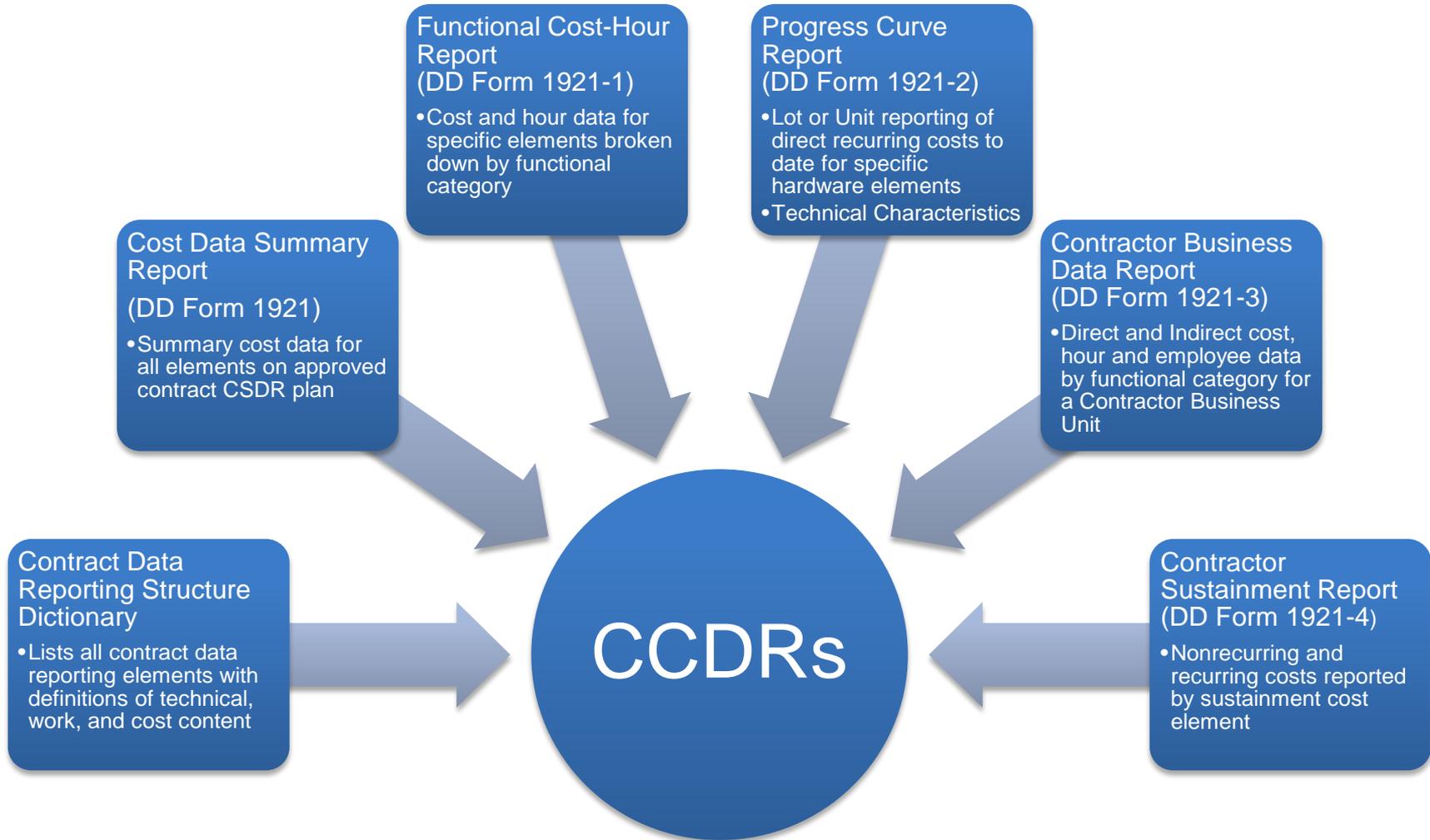
- Initial Developer Report
- Final Developer Report

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 how to complete 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 the Contract Data Reporting Structure Dictionary (CDRD) is located in the top left corner. It features a stylized illustration of a military base or facility with various aircraft and structures, with the word "CAPE" written in a bold, yellow font across the bottom of the image.

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 costs for all elements

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 cost breakout

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 costs to date

Detailed breakout of direct costs

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 in one Microsoft Excel workbook
 - Current 1921 DID: DI-FNCL-81565C



Cost Data Summary Report (DD Form 1921)

UNCLASSIFIED

OSD CAPE

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											

Metadata
(Blocks 1 -21)

Data Reporting Structure
(Blocks A and B)

Remarks
(Block 22)

At Completion:
Number of Units
(Block G) and
Costs Incurred
(Blocks H-J)

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
 - Reported costs do not include dollars reported against summary elements on 1921 (G&A, MR, UB, FCCM, Profit/Fee)
 - 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 in one Microsoft Excel workbook with separate tabs for each report.
 - Current 1921-1 DID: DI-FNCL-81566C



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

UNCLASSIFIED

OSD CAPE

Metadata
(Blocks 1 – 19, 21)

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							

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



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
Manufacturing Operations	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
	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
Materials	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) 	
	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"> • Costs 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
 - Reported costs do not include dollars reported against summary elements on 1921 (G&A, MR, UB, FCCM, Profit/Fee)
 - 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 in one Microsoft Excel workbook with separate tabs for each report
 - 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: PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-FRP <input type="checkbox"/> C-LRIP <input type="checkbox"/> A <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	
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:	e. TASK ORDER/DELIVERY ORDER/LOT NO.:	
8. PERIOD OF PERFORMANCE 8. START DATE (YYYYMMDD): 9. END DATE (YYYYMMDD):		9. REPORT CYCLE <input type="checkbox"/> INITIAL <input type="checkbox"/> INTERIM <input type="checkbox"/> FINAL	10. SUBMISSION NUMBER	11. RESUBMISSION NUMBER	12. REPORT AS OF (YYYYMMDD)	
3. NAME (Last, First, Middle Initial)		14. DEPARTMENT	15. TELEPHONE NO. (Include Area Code)	16. E-MAIL ADDRESS	17. DATE PREPARED (YYYYMMDD)	
8. 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

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

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.: _____ c. SOLICITATION NO.: _____
 b. LATEST MODIFICATION: _____ d. NAME: _____
 e. TASK ORDER/DELIVERY ORDER/LOT NO.: _____

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

The data needed, and completing and reviewing the collection of information. Send comments to the Office of Management and Enterprise 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 _____

6. CUSTOMER (Direct-Reporting Subcontractor Use Only) _____

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

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%		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	Total FPR Unit Revenue (Sales) (thousands of dollars)		Prior Year		Current Year																
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)

OSD CAPE

- Key Characteristics:
 - Contract level reporting structure mandatory for new sustainment contracts
- Provides:
 - To Date and at completion nonrecurring and recurring cost data by sustainment cost element
 - Initial, interim, and final submissions due at pre-determined intervals according to approved plan
- The DD Form 1921-4 sustainment cost structure should stay intact; if additional detail is desired it may be added as children-level elements under an existing cost element (<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>)
- The 1921-4 reporting form will not be used, the cost structure will remain and reports will be provided using the 1921 and 1921-1 reporting forms
- Current 1921-4 DID: DI-FNCL-81831



1921-4 Sustainment Cost Elements

OSD CAPE

The Sustainment Cost Structure will remain intact, providing breakout for:

- Unit Level Manpower
- Unit Operations
- Maintenance
- Sustaining Support
- Continuing System Improvements
- Installation and Personnel Support

SUSTAINMENT COST ELEMENTS	
(1)	1.0 UNIT-LEVEL MANPOWER (SYSTEM LEVEL COST ONLY)
(2)	1.1 OPERATIONS MANPOWER
(3)	1.2 UNIT-LEVEL MAINTENANCE MANPOWER
(4)	1.3 OTHER UNIT-LEVEL MANPOWER (Specify in Remarks)
(5)	2.0 UNIT OPERATIONS (SYSTEM LEVEL COST ONLY)
(6)	2.1 OPERATING MATERIAL
(7)	2.1.1 ENERGY (Fuel; Petroleum, Oil, and Lubricants (POL); Electricity)
(8)	2.1.2 TRAINING MUNITIONS/EXPENDABLE STORES
(9)	2.1.3 OTHER OPERATING MATERIAL (Specify in Remarks)
(10)	2.2 SUPPORT SERVICES (INCLUDING NON-MAINTENANCE FSRs)
(11)	2.3 TEMPORARY DUTY
(12)	3.0 MAINTENANCE
(13)	3.1 OVERHAUL OF END ITEMS
(14)	3.1.1 SCHEDULED OVERHAUL
(15)	3.1.1.1 VEHICLE/PLATFORM OVERHAUL
(16)	3.1.1.2 PROPULSION OVERHAUL
(17)	3.1.1.3 OTHER OVERHAUL
(18)	3.1.2 UNSCHEDULED OVERHAUL
(19)	3.1.2.1 VEHICLE/PLATFORM OVERHAUL
(20)	3.1.2.2 PROPULSION OVERHAUL
(21)	3.1.2.3 OTHER OVERHAUL
(22)	3.2 DEPOT LEVEL REPARABLES (DLR) / REPAIR OF REPARABLES (ROR)
(23)	3.3 CONSUMABLES AND REPAIR PARTS
(24)	3.4 OTHER MAINTENANCE SERVICES (INCLUDING FSRs) (Specify in Remarks)
(25)	3.4.1 O-LEVEL MAINTENANCE SERVICES
(26)	3.4.2 I-LEVEL MAINTENANCE SERVICES
(27)	3.4.3 DEPOT LEVEL MAINTENANCE SERVICES
(28)	3.5 PACKING, HANDLING, SHIPPING, AND TRANSPORTATION (PHS&T)

(29)	4.0 SUSTAINING SUPPORT (SYSTEM LEVEL COST ONLY)
(30)	4.1 SYSTEM SPECIFIC TRAINING
(31)	4.1.1 OPERATOR TRAINING
(32)	4.1.2 MAINTENANCE TRAINING
(33)	4.1.3 OTHER TRAINING (Specify in Remarks)
(34)	4.2 SUPPORT EQUIPMENT REPLACEMENT
(35)	4.3 SUSTAINING/SYSTEMS ENGINEERING
(36)	4.3.1 RELIABILITY AND MAINTAINABILITY ENGINEERING
(37)	4.3.2 LOGISTICS ENGINEERING (LSA updates, logistics analysis)
(38)	4.3.3 SUPPLY ANALYSIS EFFORTS
(39)	4.3.4 SAFETY/HUMAN SYSTEMS INTEGRATION ENGINEERING
(40)	4.3.5 AFFORDABILITY ENGINEERING
(41)	4.3.6 OBSOLESCENCE ENGINEERING
(42)	4.3.7 AVAILABILITY MANAGEMENT
(43)	4.3.8 PRODUCT ENGINEERING SUPPORT
(44)	4.3.9 INFORMATION ASSURANCE
(45)	4.3.10 CONFIGURATION MANAGEMENT
(46)	4.3.11 SYSTEM PERFORMANCE ANALYSIS
(47)	4.3.12 SUPPLY
(48)	4.3.13 DATA ANALYSIS
(49)	4.3.14 PHYSICAL SECURITY
(50)	4.4 PROGRAM MANAGEMENT
(51)	4.4.1 CONTRACTOR LOGISTICS SUPPORT (CLS) MANAGEMENT
(52)	4.4.2 CLS SUPPLY MANAGEMENT
(53)	4.4.3 FINANCIAL/SCHEDULE PLANNING AND REPORTING
(54)	4.4.4 TRANSITION TO LEAD SERVICE
(55)	4.4.5 QUALITY ASSURANCE (Program Level)
(56)	4.4.6 ADMINISTRATIVE SECURITY
(57)	4.4.7 TRANSITION TO PERFORMANCE BASED LOGISTICS (PBL)
(58)	4.4.8 RISK MITIGATION
(59)	4.5 INFORMATION SYSTEMS
(60)	4.5.1 TECH REFRESH
(61)	4.5.2 LICENSE FEES
(62)	4.5.3 MAINTENANCE
(63)	4.6 DATA AND TECHNICAL PUBLICATIONS
(64)	4.7 SIMULATOR OPERATIONS
(65)	4.7.1 SIMULATOR OPERATIONS HARDWARE SUPPORT
(66)	4.7.2 SIMULATOR OPERATIONS MANPOWER
(67)	4.7.3 SIMULATOR TECH REFRESH
(68)	4.8 OTHER SUSTAINING SUPPORT (Specify in Remarks)
(69)	5.0 CONTINUING SYSTEM IMPROVEMENTS
(70)	5.1 HARDWARE MODIFICATIONS OR MODERNIZATION
(71)	5.1.1 MOD KIT DEVELOPMENT
(72)	5.1.2 MOD KIT PROCUREMENT
(73)	5.1.3 MOD KIT INITIAL SPARES
(74)	5.1.4 MOD KIT INSTALLATION
(75)	5.2 SOFTWARE MAINTENANCE OR MODIFICATION
(76)	6.0 INSTALLATION AND PERSONNEL SUPPORT (SYSTEM LEVEL COST ONLY)
(77)	SUMMARY
(78)	TOTAL COST (Direct and Overhead)



CSDR Reporting Summary

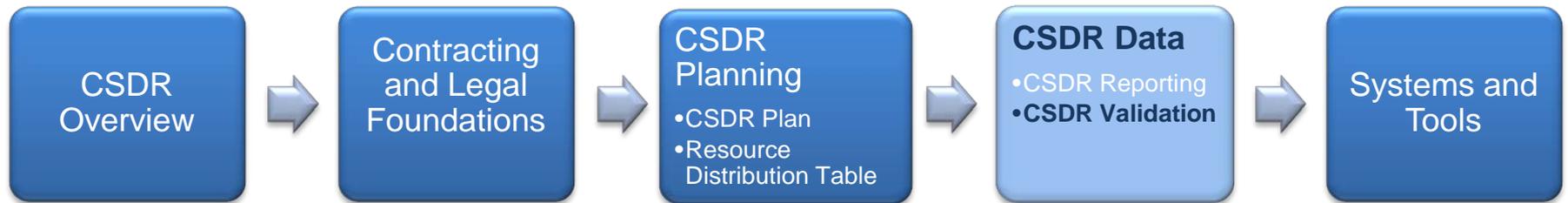
OSD CAPE

- 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

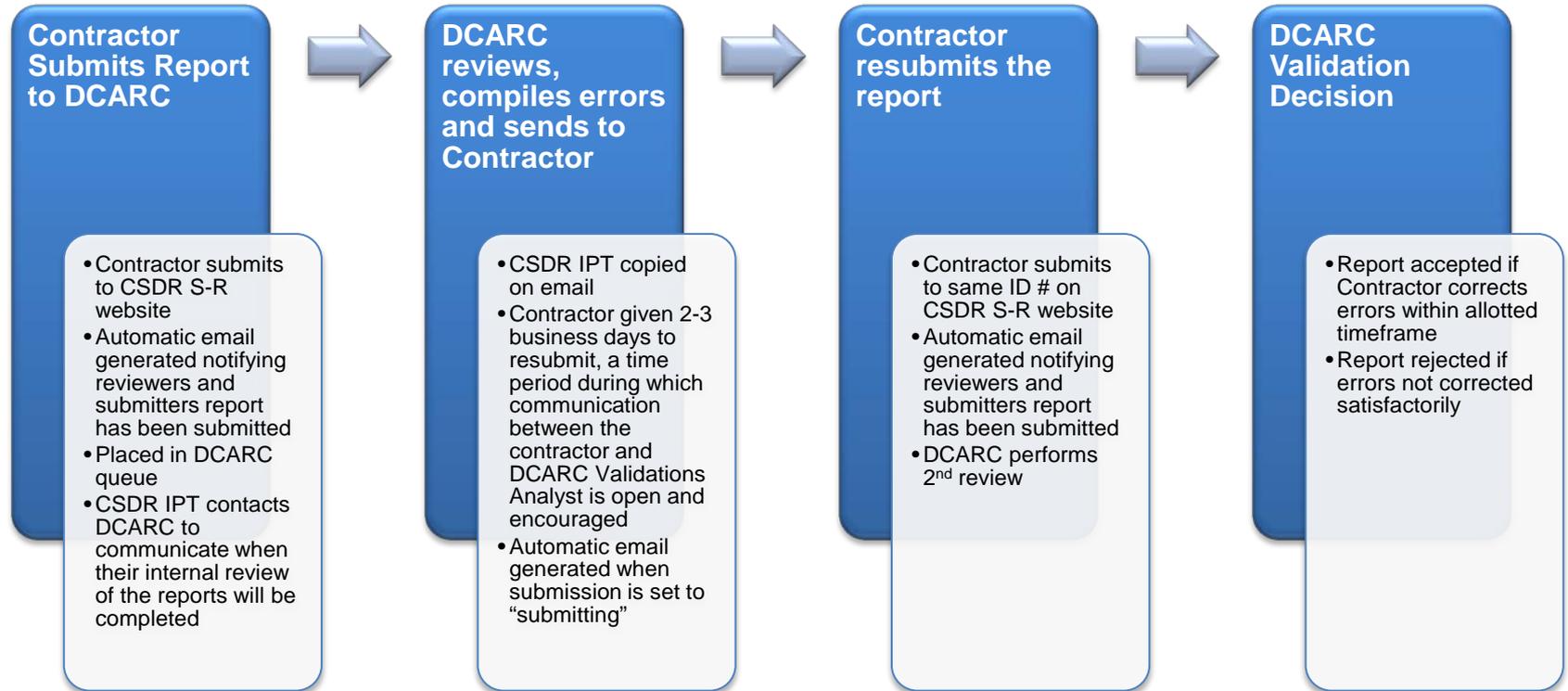
OSD CAPE





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
- Contract and plan numbers match the approved contract CSDR plan
- 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 correctly and contract number, plan number, and submission event match approved contract CSDR plan
- Number of Units to date and at completion reported correctly for all hardware elements with recurring costs
- Nonrecurring and recurring costs not reported as an aggregate
- Costs reported to date on annual reports increase from prior reports
- Appropriate and accurate explanations in Remarks sections as required by DIDs (accounting changes since last report, Cost Accounting Standards Disclosure statements differ from cost definitions in DIDs) and for all 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
- Contract ceiling \geq contract price and/or total price (or explanation provided)
- Nonrecurring and recurring costs reported discretely
- Final reports are \geq 95% complete

1921-1 Report

- Total costs match costs for element on 1921 report
- Direct labor hours, dollars, and overhead reported
- Costs for raw material, purchased parts, and equipment reported discretely
- Explanations for Other Costs Not Shown Elsewhere and Direct Reporting Subcontractors

1921-2 Report

- Direct recurring data matches 1921-1 report
- Direct costs and hours reported
- Unit or lot reporting as specified on CSDR plan
- Technical characteristics as specified on 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 are 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 manufacturing 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 submitted 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 the Program Office/CAPE/Component Cost Organization 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 sent out

**DACIMS
(accessible
only to
Government
analysts)**

Rejected

- Reject Memo and Validation Error Report sent out
- Increment resubmission number (e.g., from "0" to "1")

**Contractor
must
resubmit
per memo
(~30 days)**



Consequences of Rejected Reports

OSD CAPE

- Delayed cost data availability for government cost analysts
- Additional work for government and reporting contractor
- Frequent rejections considered when compiling compliance ratings
- Delayed milestone reviews and contract awards



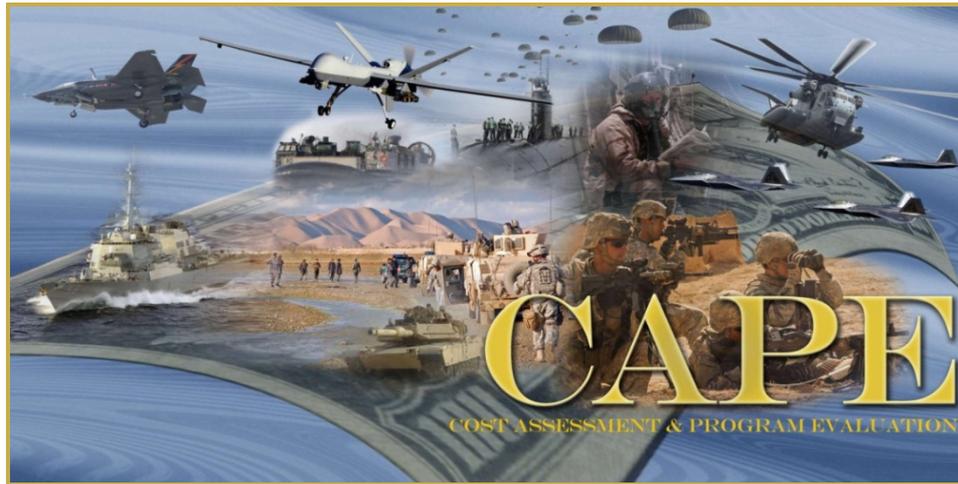
CSDR Validation Summary

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 Validation Checks

OSD CAPE

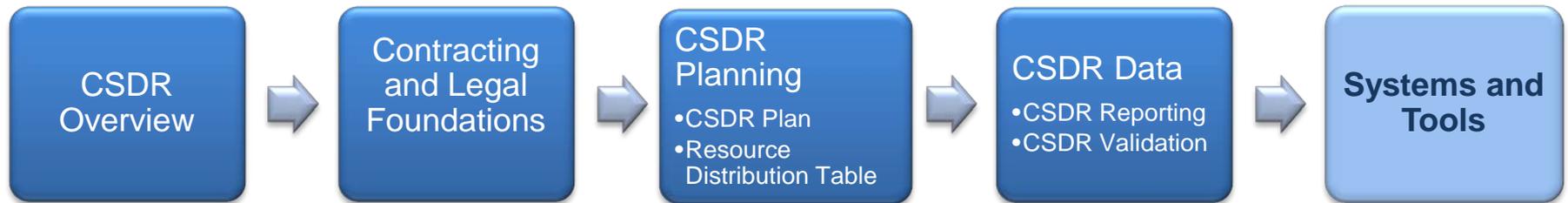
- cPet should be used by the contractor to check CCDRs for errors prior to submission
 - Validates 1921, 1921-1, 1921-2, and 1921-3 reports
 - Performs preliminary validations and displays errors for missing, incomplete, inconsistent and numerically inaccurate data

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

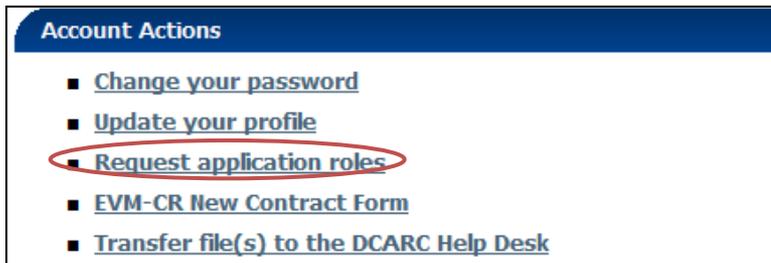
OSD CAPE

- 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

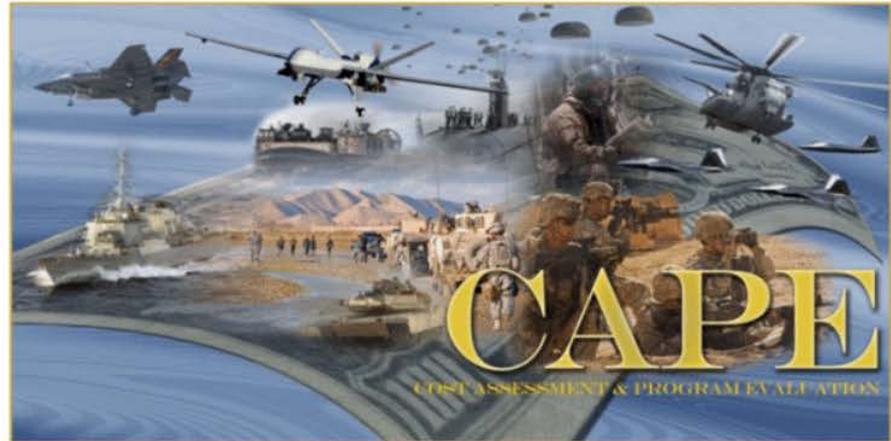
CONTACT US

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	200629_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
- Automated validation

Data providers submit reports

CSDR S-R

Access list of upcoming, overdue, and finalized submissions

Submission and validation of 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
 - Reports 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	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	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

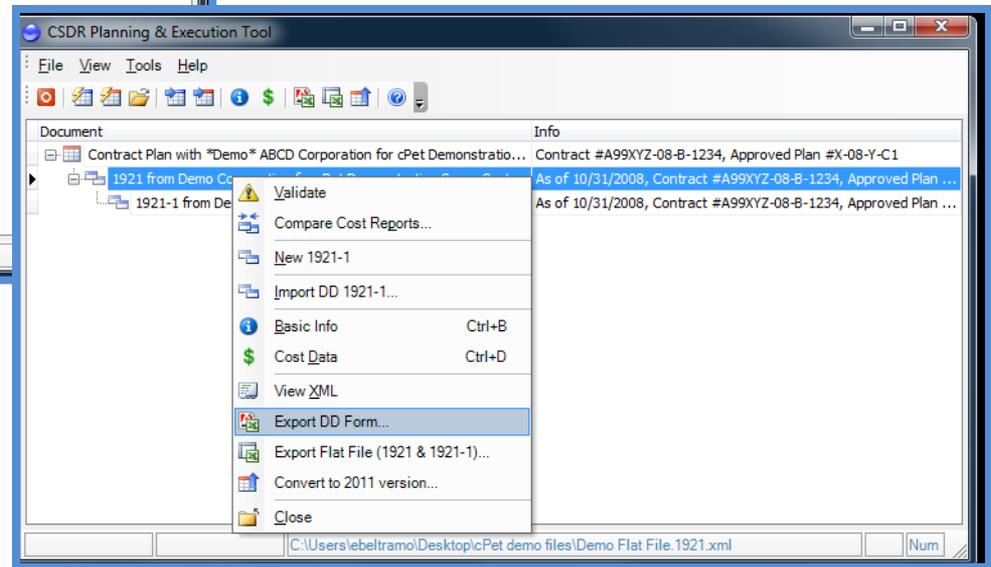
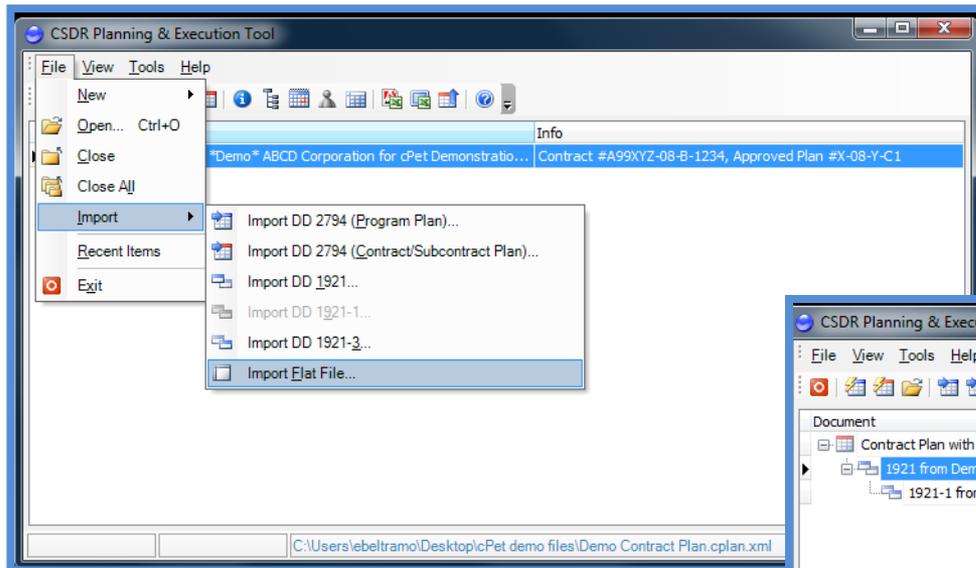
The Flat-File Template is available for download at <http://dcarc.cape.osd.mil/CSDR/cPet.aspx>



Preparing CCDR Submissions

OSD CAPE

- Export Excel Flat File into DD Forms
 - Select File – Import – Import DD 2794 (Contract/Subcontract Plan) – Import Flat File
 - Select 1921 report – Right click – Select Export DD Form
 - Select 1921-1 report – Right click – Select Export DD Form
 - Select the 1921-2 report – Right click – Select Export DD Form

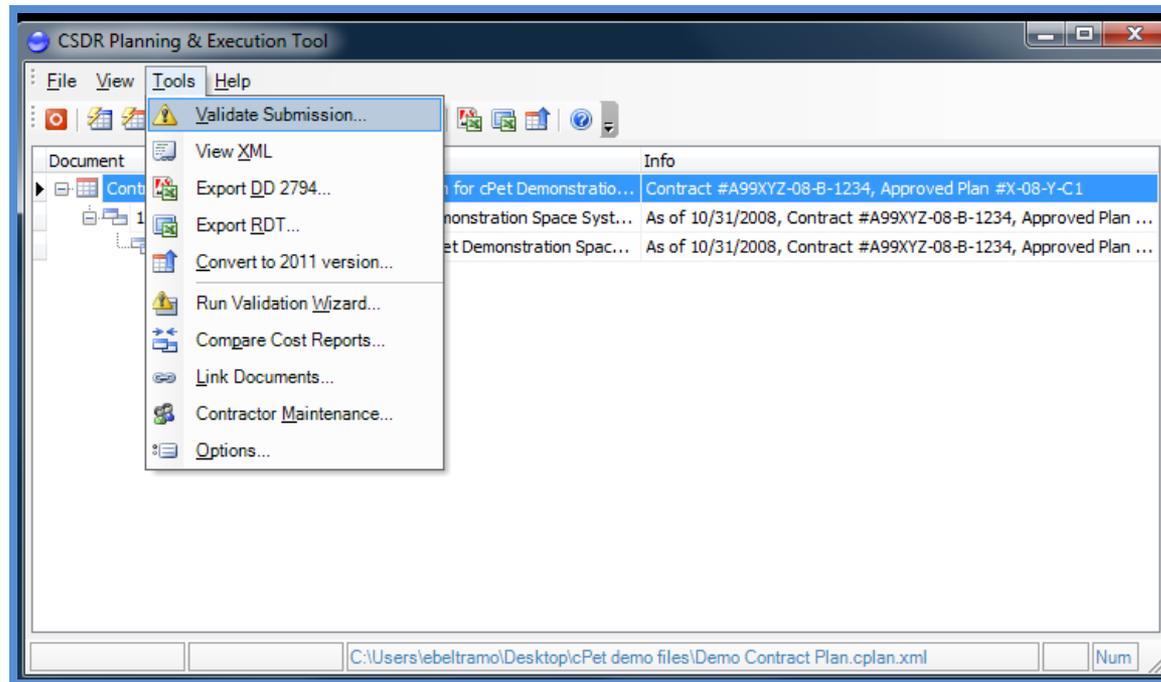




Validating CCDR Submissions

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 DD 1921– Import DD 1921-1
 - Highlight Contract Plan – Select Tools – Validate Submission





cPet Summary

OSD CAPE

- Desktop and Web Versions
- Transforms Flat File into DD 1921, 1921-1, and 1921-2 Forms
- 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
- 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: All Program: All Programs
 Submission Stage: None Contract: All

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-C2-54	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
Review & Submit

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.

Uploaded Files

	File Name	File Type	File Comment	Actions
	Test Parts List.xlsx	Other		
	Test 1921-1.xlsx	1921-1		
	Test 1921.xlsx	1921		

Upload the required files for this Submission Event and specify the appropriate file types. Note: If you want to validate a 1921 or 1921-1 document, you must

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

OSD CAPE

• Validate reports

- For CCDR submissions, the “Validate” tab will run cPet against the 1921 and 1921-1 reports
 - Select the 1921, 1921-1, and 1921-2 reports and correct corresponding contract plan from the drop down options and click “Validate”
 - A .xls file will be generated under “Working Files”
 - This file should be reviewed to verify that no major cPet errors exist in the reports

Submission Info
Files
Validation
Review & Submit

Select Validation Options

1921

1921-1

1921-2

Contract Plan Number

Submission Event

Submission Event Number: 1

Submission Event Name: Final Lot 7 Report, 4 accounting months after mont

Assigned Plan Number: [AF-05-D-C4-S1](#)

[Export Table to Excel](#)

Working Files

		File Name	File Type	Created Date	User	1921 Count	1921-1 Count	1921-2 Count	
		XMLValidationResults_Combined_1921 & 1921-1.xls	Validation Results	10/20/2013 6:32:58 PM	ebeltramo	1	64	0	

The DCARC validation tool now supports Excel 2011 documents.

Select a 1921 or a 1921 and 1921-1 pair and the corresponding contract plan and press validate to check the Submission files for errors.

CSDR S-R: Submitting Reports – Step 4: 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

Submission Info
Files
Validation
Review & Submit

Contract Information

Contract Summary			
Program Name: Test	Program URI:	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		

Submission Event Plan Number: AF-05-D-C4-S1 Selected 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: 5/13/2013 Comment:	Point of Contact Information Name: Emily Beltramo Phone: 571-372-4263 Fax: Email: emily.m.beltramo.ctr@mail.mil
--	--	--

	File Name	File Type	File Comment
	Test 1921-1.xlsx	1921-1	
	Test 1921.xlsx	1921	
	Test Parts List.xlsx	Other	

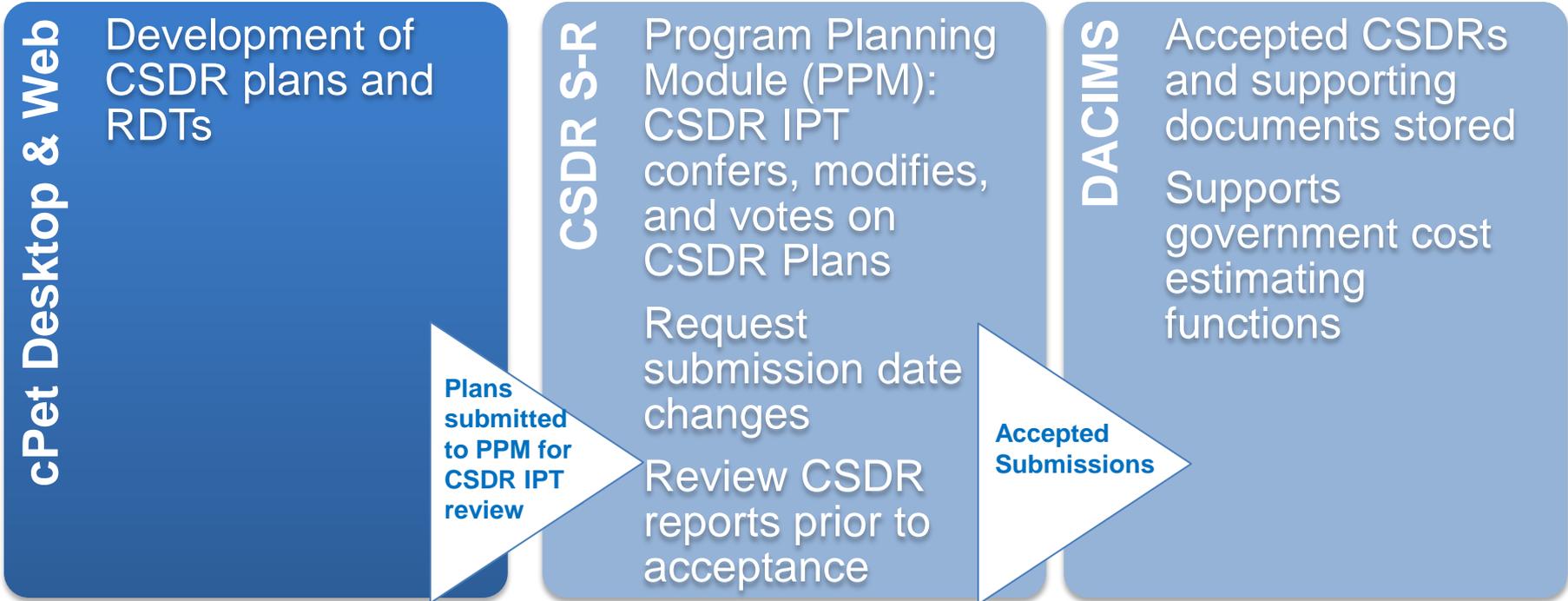
Submission Warnings (Not including file validation)
All required files are present.

Back
Submit
Review the Submission inputs and Submission warnings. Press the 'Submit' button at the bottom of the page to complete this Submission.



Data Users: cPet Desktop and Web

OSD CAPE





Data Users: cPet Desktop and Web

OSD CAPE

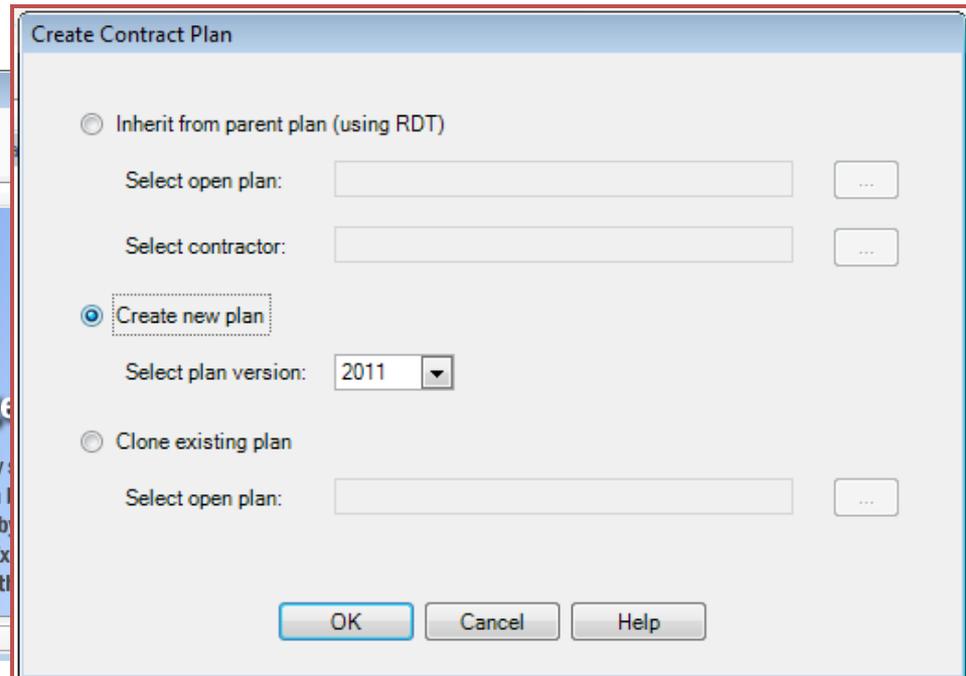
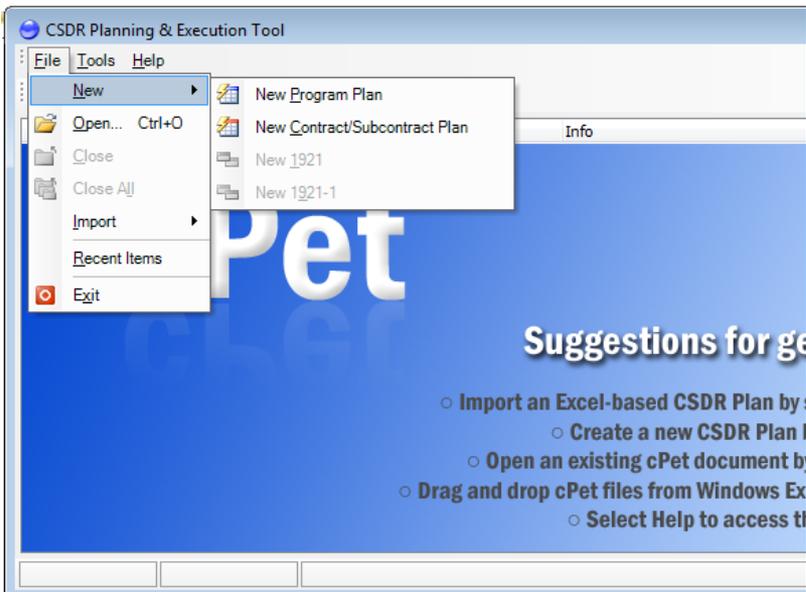
- cPet can be used by Program Offices to draft CSDR plans and RDTs
 - Uses MIL-STD-881C as a starting point for data reporting structures
 - Allows users to make new plans or modify existing plans
 - Ability to create RDTs



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

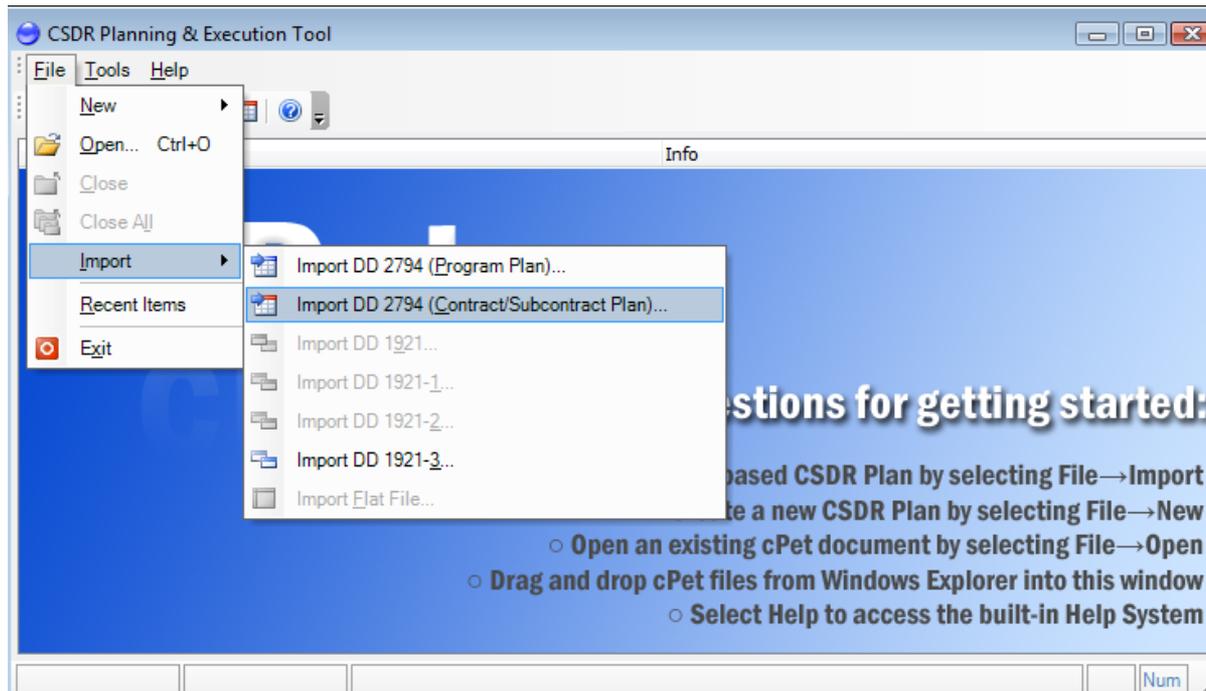




Revising CSDR Plans

OSD CAPE

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



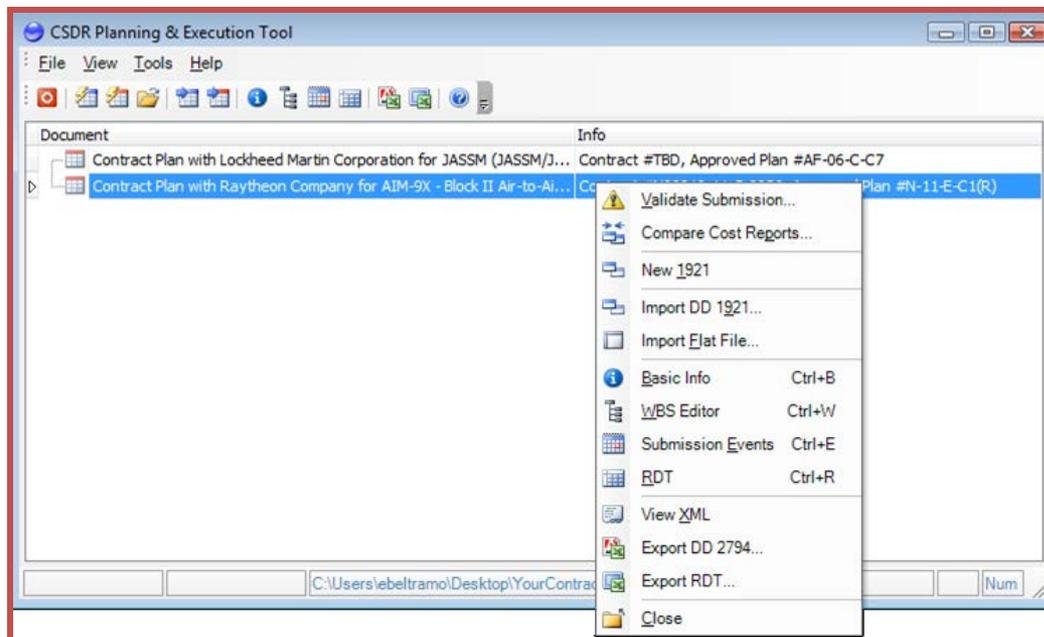
For cPet compatibility, the XML files should be imported if available. Importing the Excel version of the plan will delete any information entered in the Remarks



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

RDT - Contract Plan with Raytheon Company for AIM-9X - Block II Air-to-Air Missile

File Edit View

Prime Contractor Subcontractors

Selected Contractor Information

Contract Description Total Contract Value \$M

Contractor Name Software Contract Value \$M

Contractor Location  Government Organization or PARM

Contract Number CSDR Direct Reporting per CWIPT

SRDR Direct Reporting per CWIPT

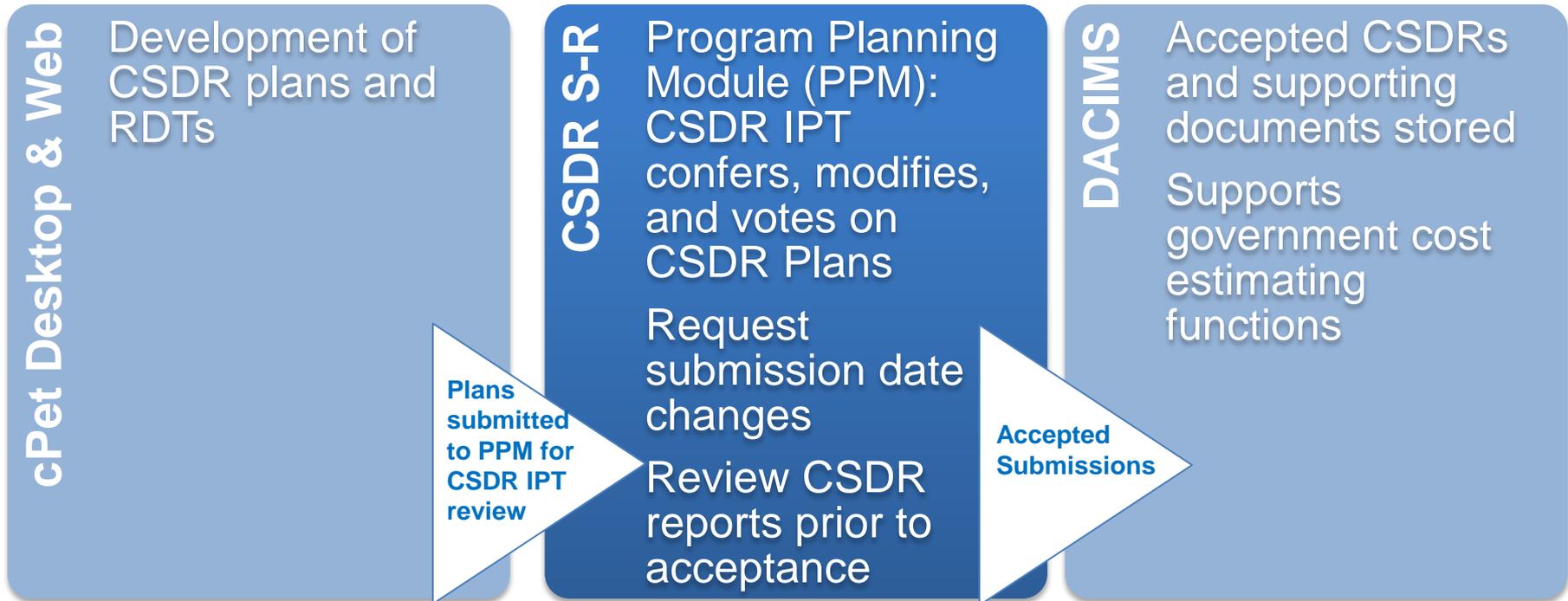
WBS Element Name	WBS Element Code	TBD	TBD
AIM-9X Missile System - Blk II ...	1.0	<input type="checkbox"/>	<input type="checkbox"/>
Air Vehicle	1.1	<input type="checkbox"/>	<input type="checkbox"/>
Propulsion (Stages I...n,]	1.1.1	<input type="checkbox"/>	<input type="checkbox"/>
Payload	1.1.2	<input 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"/>

Num



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 the CSDR IPT to draft and collaborate on CSDR Plans and supporting documentation prior to approval
 - Request date changes for submission events
 - Review submitted reports to provide 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



Step 1: Request a Program

OSD CAPE

Programs

[Hide My Programs](#)

Programs
Please select your program to begin. If your program does not appear, click Request to be added to a program.

Request

ACAT Category: (All) CSDR Compliance Group: (All) Earliest Target Date: (All) Service: (All) DCARC Analyst: (All) Action Required: (All)

You have not been assigned any programs.

Request to be added to a Program

[Back](#)

Search for a Program, select the desired programs, and click the 'Send Request' button to make your request.

Program Search

Program Name:

Program Group: (Any)

CSDR Compliance Group: A, B, C

ACAT Category: ID, IC, IAM

Search Results

Select <input type="checkbox"/>	Name	Description	Program Group	CSDR Group	ACAT Category
<input type="checkbox"/>	Death Star Program (Testing Purposes)	A fake testing	MDAP	C	ID
<input checked="" type="checkbox"/>	Test Program	This is a test program	MDAP	A	IAM

1. Click 'Request'
2. Type in program name, or use the search criteria
3. Check the box in the 'Select' column to select program
4. Click 'Send Request'
*Popups must be enabled
5. Provide a short description of need for program access
6. DCARC analyst reviews request and provides access within 1 – 2 business days



Step 2: Request a Plan Package

OSD CAPE

- **Plan Package** = A collection of related program, contract, or subcontract CSDR plans and supporting documentation that require DCARC and CAPE approval

Name	ACAT Category	CSDR Compliance Group	Action Required	Earliest Target Date	Service	DCARC Analyst
Test Program	IAM	A (not rated)	No			Jen Horner

Test Program

Program Name	Test Program
ACAT Category	IAM
CSDR Compliance Group	A (not rated)
Action Required	No
Earliest Target Date	N/A
Service	(no service)
Assigned DCARC Analyst	Jen Horner

[Edit](#)

[Add CSDR Plan Package](#)

[In Process](#) [In Finalization](#) [Approved Documentation](#) [Archived Working Files](#)

Plan Packages:

Action Required:
 Any Yes No

No program plan packages have been added.

Program Collaborator	Organization	Role
Jen Horner	Tecolote Research, Inc.	DCARC Reviewer

1. Select the Program Name
2. Click 'Add CSDR Plan Package'



Step 2: Request a Plan Package (cont.)

OSD CAPE

Add CSDR Plan Package

Complete the form to add a CSDR plan package.

DCARC System Development | Requested By: Charlotte McIntosh

Plan Package Name: DCARC System Development

Plan Package Phase: DEV

Plan Package Status: New

Plan Package Description:
The DCARC System is in the early stages of development. The Program Office plans to create Program and Prime Contract CSDR Plans for this effort.

Update Cancel

3. Create a '**Plan Package Name**': a descriptive name to identify the CSDR plans included in this plan package
4. Select a phase under '**Plan Package Phase**': the acquisition phase of the program
5. Fill out a '**Plan Package Description**': a brief description of the CSDR plans this plan package will be capturing
6. Select '**Update**' to finalize



Step 3: Requesting a Plan Task

OSD CAPE

- **Plan Task** = A single program, contract, or subcontract CSDR plan, as well as the accompanying required documentation

Plan Packages:

Action Required:
 Any Yes No

	Identifying Task	New/Revision	Action Required	Reporting Entity	Contract Number	Target Approval Date	In S/R?
DEV							
DCARC System Development	Collaboration	In Vote	Director Review	CAPE Review	Approved		

1. Click on the plus sign to request a plan task



Step 3: Requesting a Plan Task (cont.)

OSD CAPE

Add CSDR Plan Task

Input the following information to add a CSDR plan task.

CSDR Plan Package:	DCARC System Development	Plan Task Description:	This is the CSDR program plan task for the development of the DCARC System.	
Identifying Task:	DCARC System (Program Plan)	Required Documents:		
Plan Type:	<input checked="" type="radio"/> Program Plan <input type="radio"/> Prime <input type="radio"/> Sub	Submission Component Type	Required	Not Required
Reporting Entity Type:	<input checked="" type="radio"/> Industry <input type="radio"/> Government	CSDR Plan	<input checked="" type="radio"/> Required	<input type="radio"/> Not Required
Reporting Entity Name:	N/A	RDT	<input checked="" type="radio"/> Required	<input type="radio"/> Not Required
New/Revision:	<input checked="" type="radio"/> New <input type="radio"/> Revision <input type="radio"/> Unknown	Acquisition Schedule Document	<input checked="" type="radio"/> Required	<input type="radio"/> Not Required
Special Cases:	<input checked="" type="radio"/> None <input type="radio"/> MAIS <input type="radio"/> Sustainment	RFP/SOW Language	<input type="radio"/> Required	<input checked="" type="radio"/> Not Required
CSDR Plan Number:	T-13-C	CDRL - CWRS Dictionary & Mapping		
EVM Reporting:	<input checked="" type="radio"/> Unknown <input type="radio"/> Yes <input type="radio"/> No			
Contract Type:	N/A			
Contract Number:	TBD			
Estimated Total Contract Value:	<input type="radio"/> X<20M <input type="radio"/> 20M < X < 50M <input checked="" type="radio"/> X>50M			
Estimated SW Dev Effort:	<input type="radio"/> X<20M <input checked="" type="radio"/> X>20M			
Draft RFP Release Date:	12/1/2013			
Final RFP Release Date:	2/1/2014			
Contract Award Date:	4/1/2014			
Target Approval Date:	10/2/2013			
Contracting Officer Name:	John Smith			
Contracting Officer Email:	John.Smith@mail.mil			
Contracting Officer Phone:	555-867-5309			

Update Cancel

2. Create **'Identifying Task'** name: the Prime Mission Product being captured in the CSDR plan
3. Fill in **'Plan Task Description'**: a short description of the work being captured with the CSDR plan
4. Enter as much available information as possible in the other fields
5. Select necessary required documents (CSDR Plan, RDT, schedule, RFP/SOW language, and CDRLs)
6. Click **'Update'** to finalize the task request



Step 4: Uploading Documents

OSD CAPE

Plan Packages:

Action Required:
 Any Yes No

Identifying Task	New/Revision	Action Required	Reporting Entity	Contract Number	Target Approval Date	
DEV						
DCARC System Development	Collaboration	In Vote	Director Review	CAPE Review	Approved	
T-13-C	DCARC System (Program Plan)	New	No	N/A	TBD	10/2/2013

Documents

Action Required:
 Any Yes No

Required	File	Upload Date Label	User	Action Required	
CSDR Plan	 			Yes	Prior Versions
RDT				Yes	Prior Versions
Acquisition Schedule Document				Yes	Prior Versions
Program CWBS Dictionary				Yes	Prior Versions

Upload File

1. Click on plan number assigned by DCARC
2. Click on  to add document
3. Click 'Browse' to search hard drive and select a file
4. Click 'Upload' to transmit document



CSDR Plans should be uploaded as XML only. Uploading in other formats can result in potential loss of data.

Step 5: Editing Plans

OSD CAPE

Documents

Action Required:
 Any Yes No

Required	File	Upload Date Label	User	Action Required	
CSDR Plan	  	 	10/21/2013 2:56:24 PM	No	Prior Versions

View plan as Excel

View plan as XML

View Plan as PDF

1. Click on  to edit plan
2. Edit fields within the webpage using cPet Web Integration feature

3. Click 'Post as Proposed File' to finalize plan edits

Original Plan Task: Demo Program Plan.pplan
 My cPet Web Plans
 Hide cPet Plan Details

Basic Information | **DD2794 Narrative Text** | WBS Editor | Required Reports | Submission Events | Contractors

Program Plan for Program cPet Demonstration Space System (CDSS)

File Name: Demo Program Plan.pplan

Plan Specifics

Initial Submission Change

Program: cPet Demonstration Space System (CDSS) Preparing Organization: Demo Organization

Prime Mission Product: Demo PMP Approved Plan Number: X-08-Y

WBS System: Space System Current Submission Date: 5/12/2008

Milestone: A Last Approved Plan Date:

Point of Contact

POC: cPet User Phone: 310-555-5555

Address: 123 Tester Lane Fax: 310-555-5555

Address: City: Los Angeles Email: tester@testing.local

State: California Zip: 55555

Export RDT?

Post as Proposed File



Step 6: Adding Comments

OSD CAPE

Comment History

(all)

Date	User	Document	Response Required	File Name	Comment
10/21/2013 12:22:09 PM	Charlotte McIntosh	CSDR Plan			Full Comment ✖

Comments & Attachments

Comments	Action Required
<p>Document <input type="text" value="CSDR Plan"/></p> <p>Required Response <input type="text" value="(none)"/></p> <p>Please review the program CSDR plan that I uploaded to the PPM.</p>	No

[Attach File](#) **File attachment:**

1. Under *'Document'*, the comment can be attached to one of the required document types, or "general"
2. Under *'Required Response'*, the comment can be directed to a specific collaborator
3. The comment can be added below, with or without a file attachment
4. Click *'Post Comment'* to finalize

Step 7: Sending Alert Emails

OSD CAPE

[Return to My Programs](#)



[Full Description of Plan Package](#)

[Edit Plan Package Description](#)

[Send alert e-mails](#)

1. Located in the top left-hand corner of the plan package screen, click '*Send alert e-mails*'
2. Select email recipients
3. Add desired message below
4. Click '*Send*' to finalize

To: Jen Springgate, DCARC Analyst
 Jimmy Springgate, DCARC Analyst
 Subject: DCARC Springgate, DCARC Analyst
 James Springgate, DCARC Analyst
 cc: Charlotte McIntosh

Charlotte McIntosh has sent you an alert e-mail alerting you of the status of the following Plan Package:

Program Name: Test Program

Plan Package Name: DCARC System Development

Plan Package Status: PO Action

Send

Step 8: Casting a Vote

OSD CAPE

The screenshot shows the CAPE system interface. At the top, there are tabs for 'In Process', 'In Finalization', 'Approved Documentation', and 'Archived Working Files'. Below these, the 'Plan Packages:' section is visible. Under 'Action Required:', there are radio buttons for 'Any', 'Yes', and 'No'. A table lists plan packages with columns: Identifying Task, New/Revision, Action Required, Reporting Entity, Contract Number, and Target Approval Date. The 'DCARC System Development' plan package is highlighted in blue and circled in red. A red arrow points from this package to a voting form. The voting form includes a title 'Please submit a vote and provide a description if necessary.', radio buttons for 'Accepted' and 'Rejected', a 'Comment:' text area, and a 'Submit Vote' button. Below the form is a 'Collaborators' table with columns for Name, Vote, and Comment.

Identifying Task	New/Revision	Action Required	Reporting Entity	Contract Number	Target Approval Date	
DCARC System Development	Collaboration	In Vote	Director Review	CAPE Review	Approved	
T-13-C	DCARC System (Program Plan)	New	No	N/A	TBD	10/2/2013

Collaborators

Name	Vote	Comment
Angela Camp	👍	
Cathy Ferguson		
John Kassab	👍	
Charlotte McIntosh		
Robert Bailey		
Sandra Ennes		

1. After all CSDR IPT members have reviewed plans, the DCARC analyst will set the status to "Vote"
2. Automatic email will alert you that the CSDR plan package has been set to 'In Vote'
3. Click on the plan package name
4. Select 'Accepted' or 'Rejected'
5. Add comment if applicable
6. Click 'Submit Vote' to finalize



Step 9: Plan Finalization

OSD CAPE

- Once the plan package has been voted on and accepted by all collaborators, the package moves to *'Director Review'*:

Identifying Task	New/Revision	Action Required	Reporting Entity	Contract Number	Target Approval Date	
DEV						
DCARC System Development	Collaboration	In Vote	Director Review	CAPE Review	Approved	
T-13-C	DCARC System (Program Plan)	New	No	N/A	TBD	10/2/2013

- After DCARC Director approval, the plan package moves to *'CAPE Review'*:

Identifying Task	New/Revision	Action Required	Reporting Entity	Contract Number	Target Approval Date	
DEV						
DCARC System Development	Collaboration	In Vote	Director Review	CAPE Review	Approved	
T-13-C	DCARC System (Program Plan)	New	No	N/A	TBD	10/2/2013

- DDCA will approve the plan package, at which point the DCARC finalizes the plan:

Identifying Task	New/Revision	Reporting Entity	Contract Number	Target Approval Date	In S/R?	
DEV						
DCARC System Development	Collaboration	In Vote	Director Review	CAPE Review	Approved	
T-13-C	DCARC System (Program Plan)	New	N/A	TBD	10/2/2013	No



Access Approved Documentation

OSD CAPE

- CSDR Plans and supporting documentation that have been approved can be accessed through the Program's "Approved Documentation" tab in the PPM

[Return to My Programs](#)

AMF JTRS – Joint Tactical Radio System Airborne & Maritime/Fixed Station



Program Name	AMF JTRS – Joint Tactical Radio System Airborne & Maritime/Fixed Station
ACAT Category	ID
CSDR Compliance Group	B (not rated)
Action Required	No
Earliest Target Date	10/10/2013
Service	ARMY
Assigned DCARC Analyst	Angela Camp, Cathy Ferguson, Emily Beltramo, Robert Bailey
	Edit

[Add CSDR Plan Package](#)

[In Process](#)
[In Finalization](#)
[Approved Documentation](#)
[Archived Working Files](#)

Plan Packages:

	Identifying Task	New/Revision	Reporting Entity	Contract Number	Latest Approval
PROD					
A-13-G	SALT: ACAT 1C	New			9/1/2013
A-13-G-C1	SALT: ACAT 1C	New	ViaSat	TBD	9/1/2013
A-13-H	SANR: ACAT 1D	New			9/1/2013
A-13-H-C1	SANR: ACAT 1D	New	TBD		9/1/2013



Program Planning Module Summary

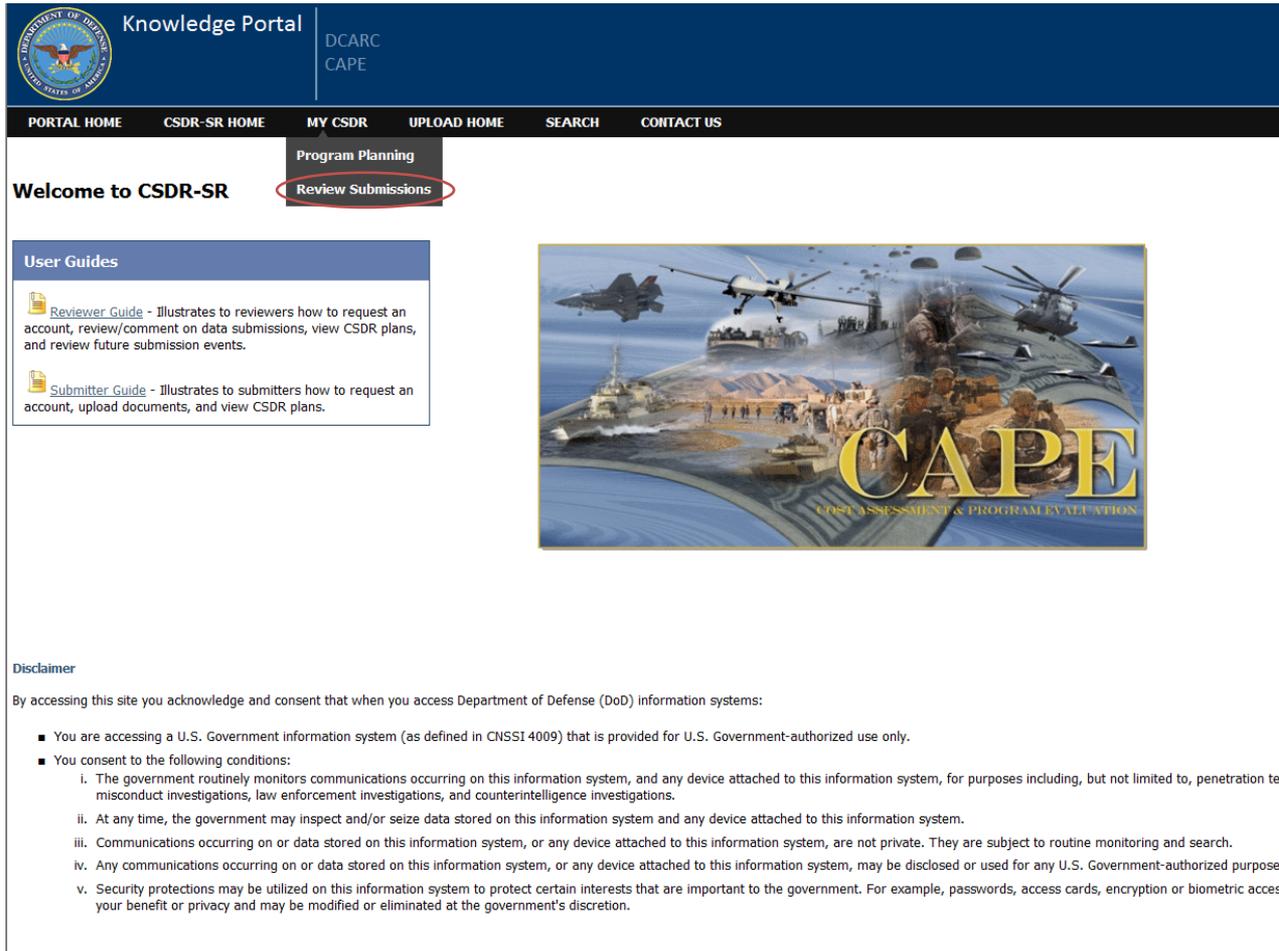
OSD CAPE

- 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 finger tips 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: 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.

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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
 Plan Number: 123456
 Submission Number: 3
 Resubmit Number:

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

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 Submission History](#)

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 [Set](#)

[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



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

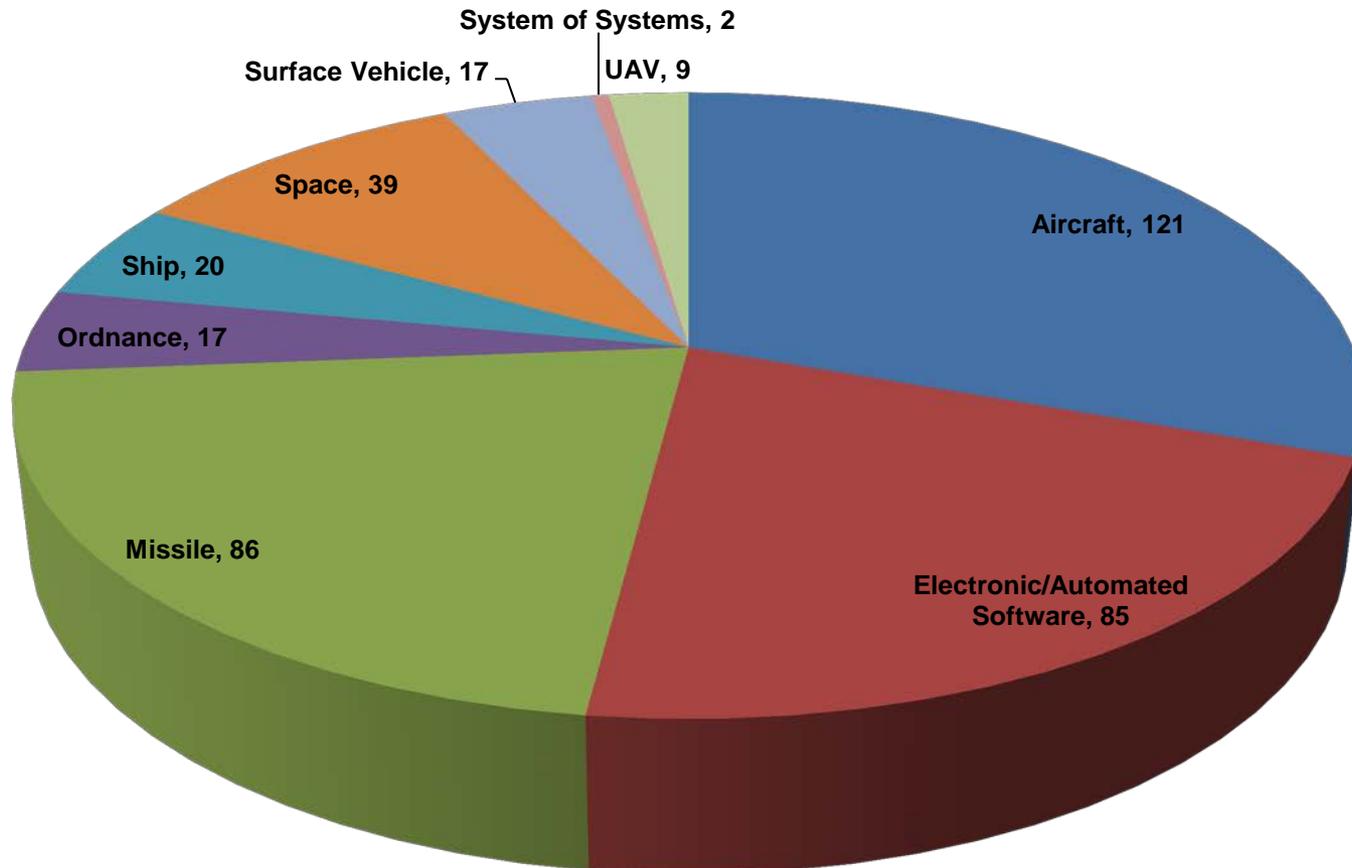
- Upon acceptance, reports are stored in the Defense Automated Cost Information Management System (DACIMS), a secure web-based repository
 - DACIMS can be accessed by DoD employees who have obtained online access through the DCARC website
 - Data is stored in folders organized by MIL-HDBK appendices



Programs in DACIMS

OSD CAPE

The DACIMS CSDR repository contains data for 396 programs, including current and legacy programs

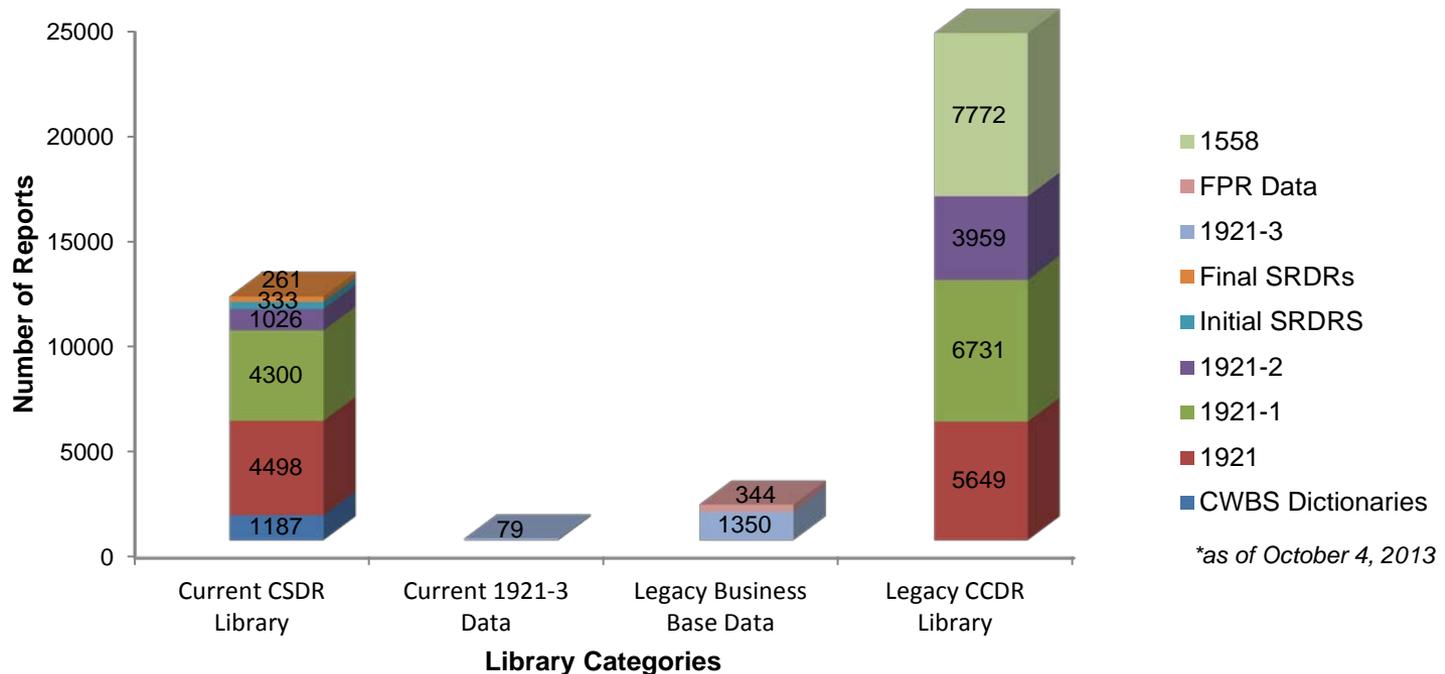




CSDR Files in DACIMS

OSD CAPE

- DACIMS uses a folder structure which at the highest level sorts files based on their type:
 - Legacy Business Base Data: contains Plant-Wide Data Reports through 2004
 - Current 1921-3 Data: contains Contractor Business Data Reports from 2009 to the present
 - Legacy CCDR Library: contains Cost and Software Data Reports including Contract Data Reporting Structure Dictionaries, CCDRs and SRDRs for Major Defense Acquisition Programs (MDAPs) that were completed before 2000
 - Current CSDR Library: contains Cost and Software Data Reports including Contract Data Reporting Structure Dictionaries, CCDRs, and SRDRs for MDAPs that were ongoing in 2000





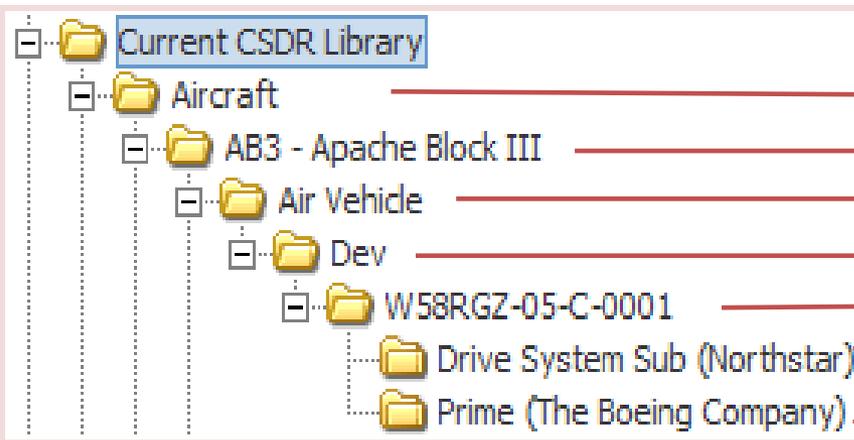
DACIMS Folder Structure

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

DCARC Home Home Library Contact Us

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

Left sidebar tree view:

- 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 OCG - Global Positioning Satellite Next Generation Const
 - 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
 - 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 CDR 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 Validation Memo



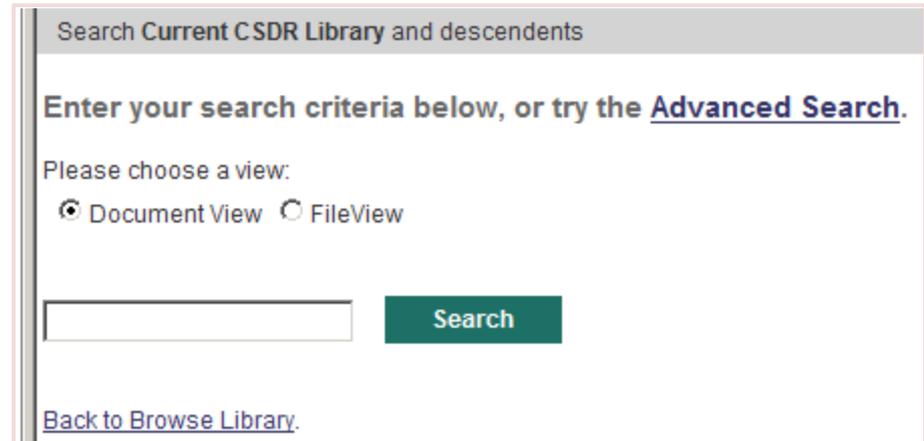
Searching DACIMS

OSD CAPE

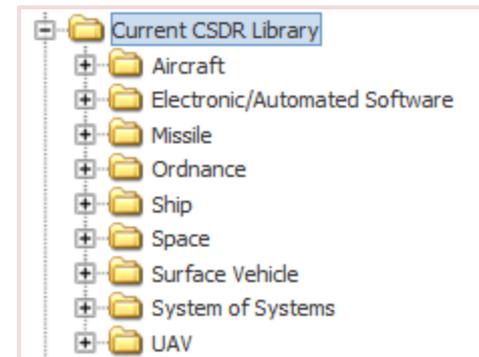
- Click for Search Options



- 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

[View All](#) [Modify Search](#) [Cancel Search](#) [Download to Excel](#)

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 CCRD_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_FA18EF_VALID CCRD_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

OSD CAPE

- 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

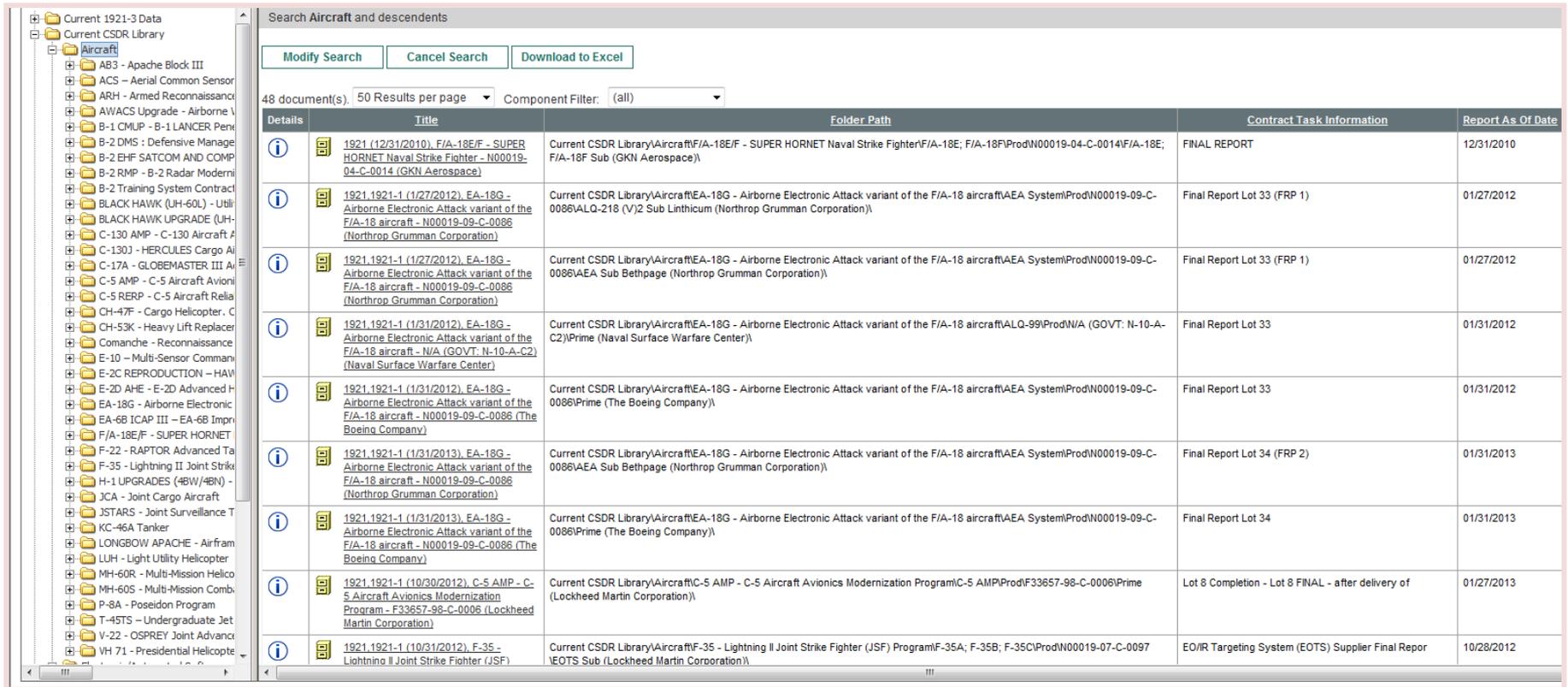
Weapon System Type

- 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:



Search Aircraft and descendants

Modify Search Cancel Search Download to Excel

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 Prod\N00019-04-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 SystemProd\N00019-09-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 SystemProd\N00019-09-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\Prod\W/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 SystemProd\N00019-09-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 SystemProd\N00019-09-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 SystemProd\N00019-09-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\Prod\F33657-98-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\Prod\N00019-07-C-0097 (Lockheed Martin Corporation)	Current CSDR Library\Aircraft\F-35 - Lightning II Joint Strike Fighter (JSF) Program\F-35A; F-35B; F-35C\Prod\N00019-07-C-0097 (Lockheed Martin Corporation)	EO/IR Targeting System (EOTS) Supplier Final Report	10/28/2012



Downloading Results to Excel

OSD CAPE

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



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



Downloading Files

OSD CAPE

- 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

- To download the file to a hard drive, click on the file symbol ( or ), and select "Save"



System and Tools Summary

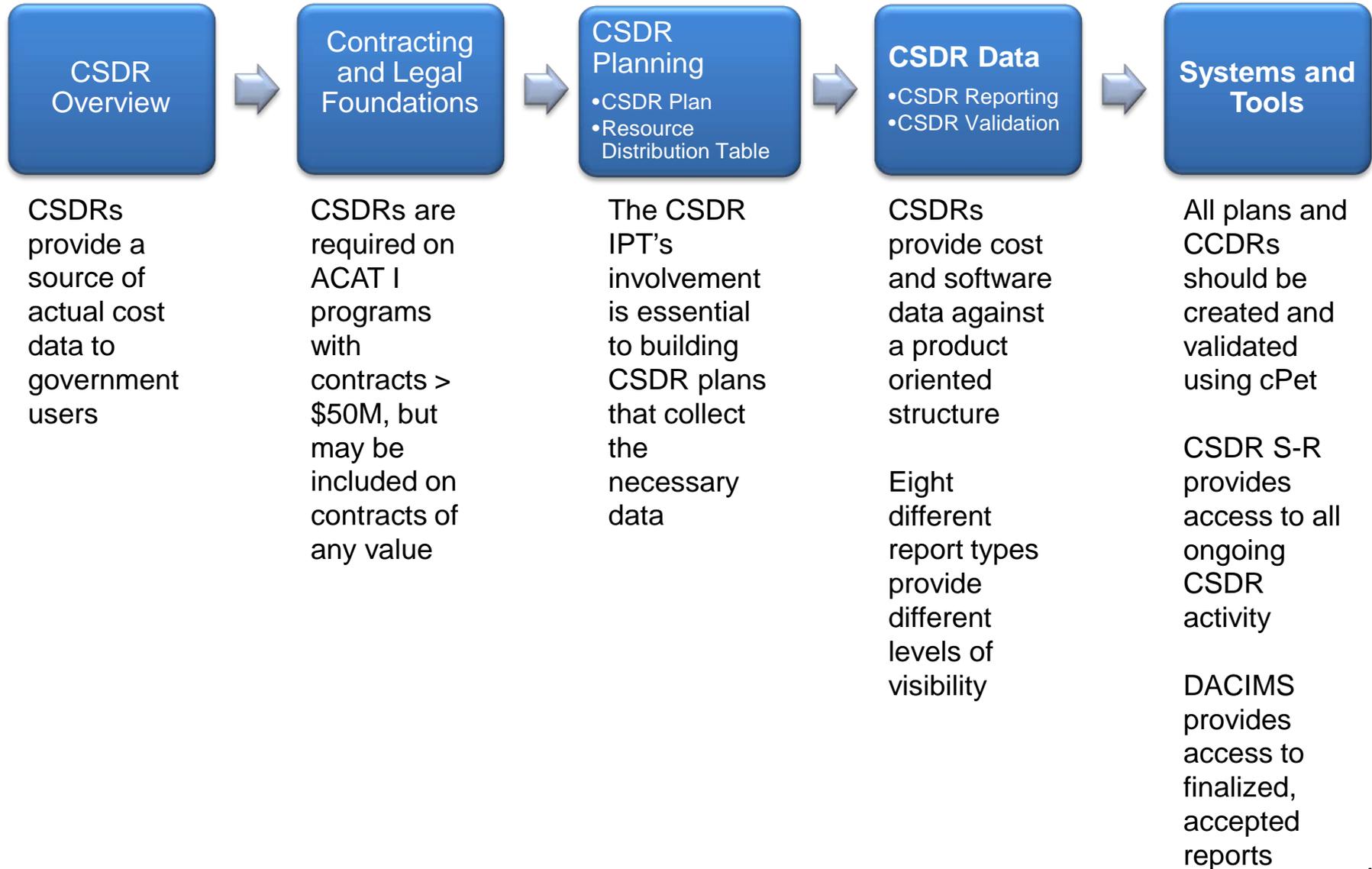
OSD CAPE

- **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

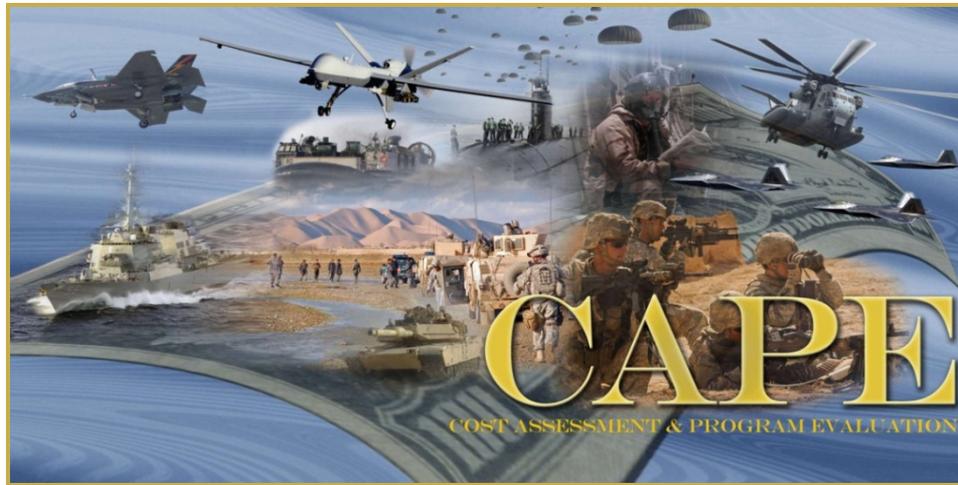


Summary

OSD CAPE



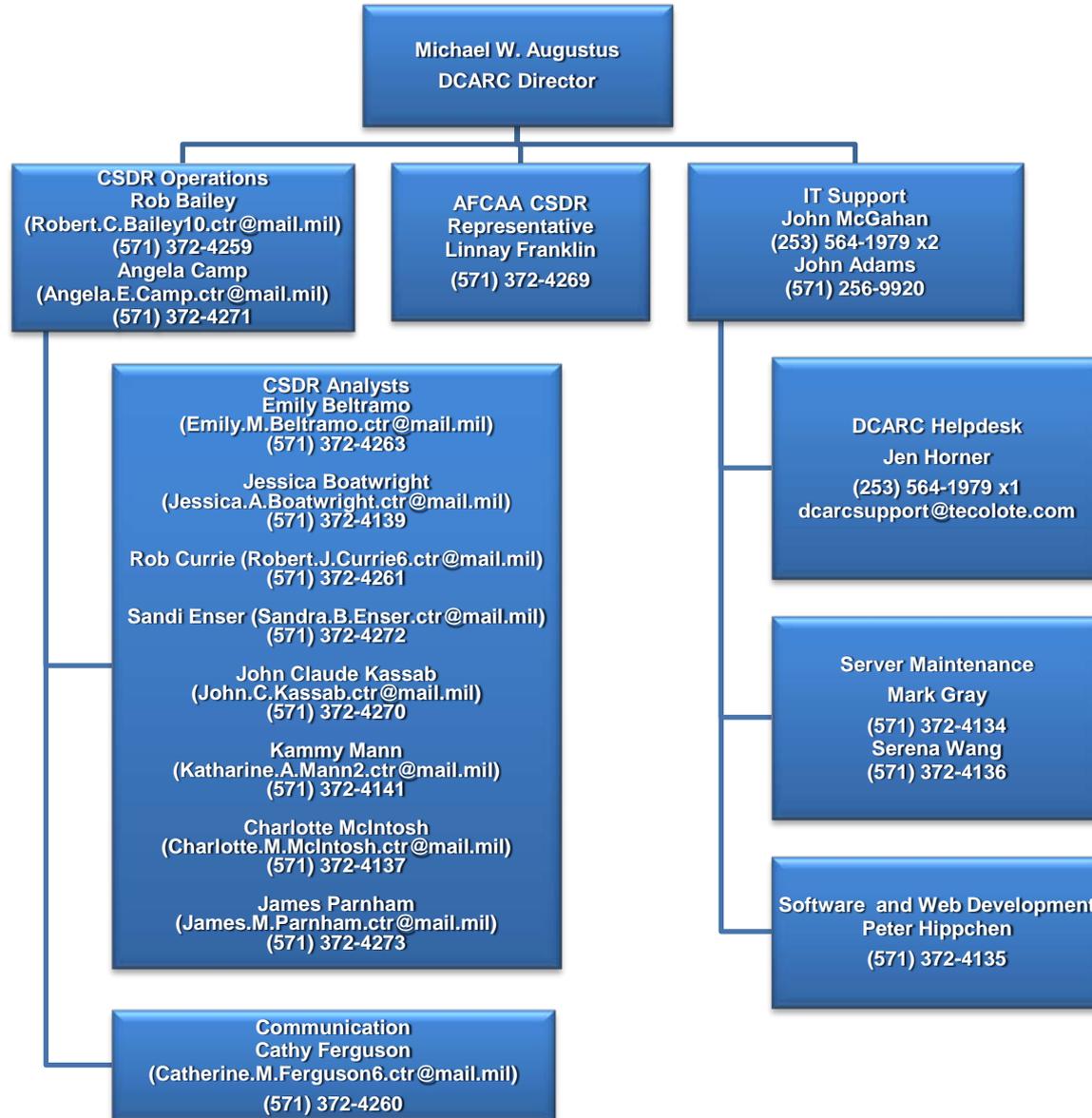
Questions?





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
CIWPT	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

BACKUP



CAPE

COST ASSESSMENT & PROGRAM EVALUATION



CSDR Plan Number Methodology

OSD CAPE

AA - YY - X - C# - S#

- **AA** is either:
 - A (Army)
 - AF (Air Force)
 - D (Department of Defense)
 - N (Navy)
- **YY**: Year the program plan was created (e.g. 97, 13)
- **X**: Alphabetical program plan number of the year (e.g. A = 1st plan, B = 2nd plan, C = 3rd plan, etc.)
- **C#**: Prime contractor number (e.g. C1 = Prime #1, C2 = Prime #2)
- **S#**: Subcontractor number (e.g. S1 = Sub #1)
- Plan revisions are denoted by an "(R)" after the plan number.
 - (R) = first revision, (R1) = second revision, (R2) = third revision, etc.

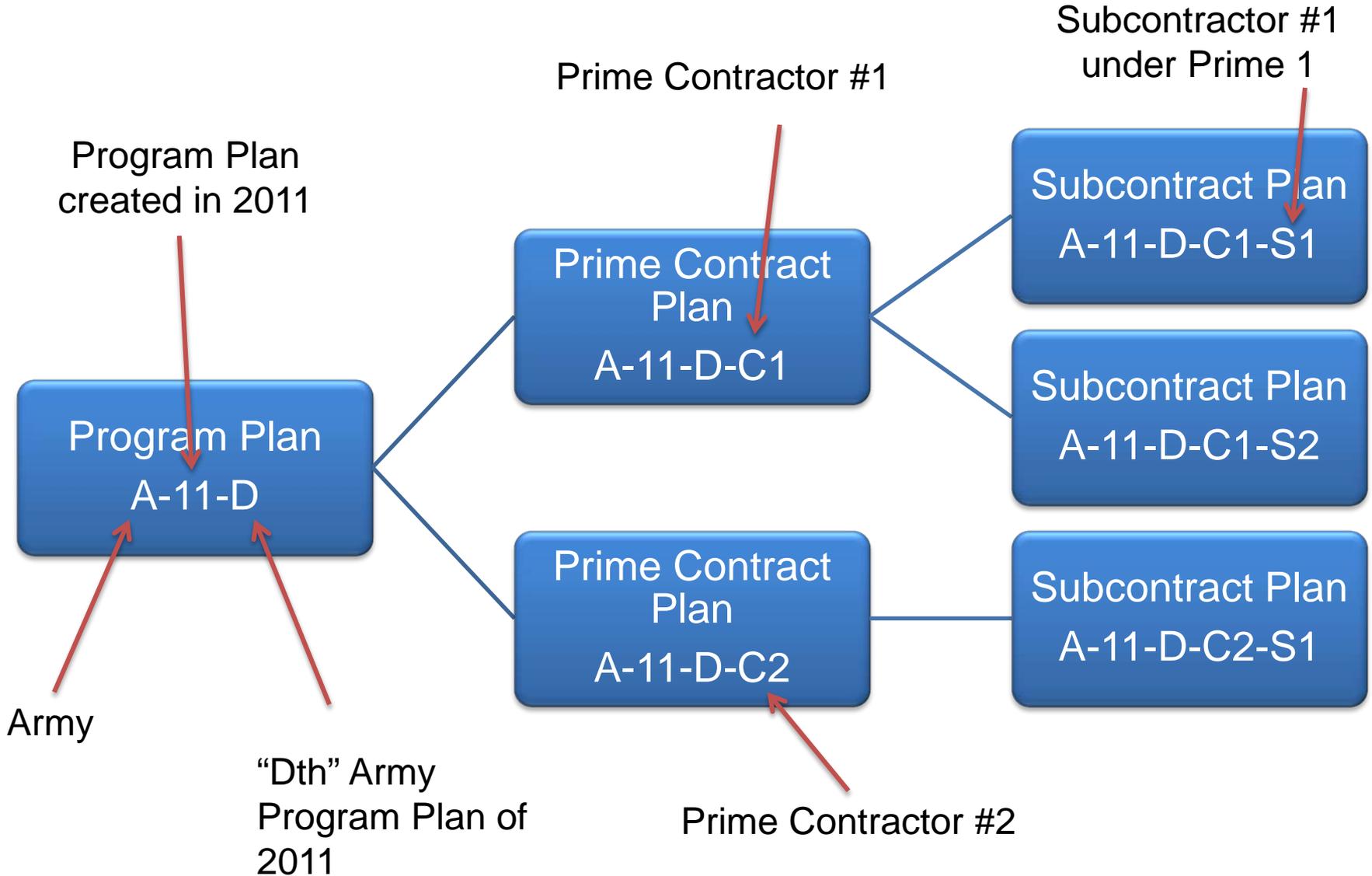
Example: A-11-D-C1-S2(R)

Army plan – program plan created in 2011 – the “Dth” Army program plan of 2011 – subcontractor #2 under prime contractor #1 – first revision



Plan Numbering Order

OSD CAPE





**PARCA
EVM**

PARCA EVM Training November 13-15, 2013



PARCA EVM

AGENDA – PARCA EVM

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



PARCA EVM

PARCA EVM Vision

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**

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. Dave Cadman
(acting)*

**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**

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



EVM

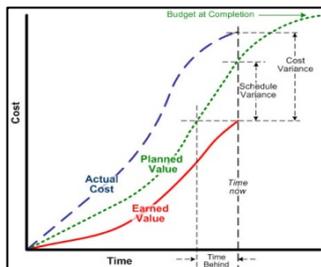
Earned Value Management (EVM) is an inherent part of the acquisition program management value chain and provides Program Managers accurate and timely insight into cost, schedule and performance of products, systems, and services programs

- ▶ *All programs need program management, even if they don't use a full EVM implementation*

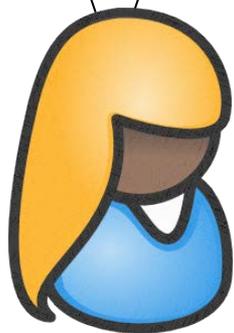


PARCA
EVM

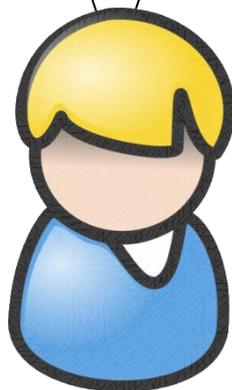
PMO - EVM Integration



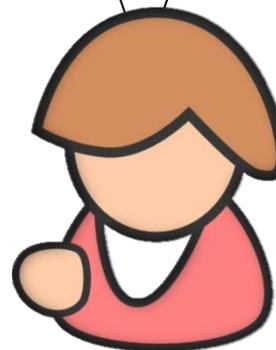
Contracts



System
Engineering



EVM Analyst



Business/Finance



Program
Manager



PARCA EVM

Getting the WBS Right is Paramount

Technical

- TPMs
- Specifications
- Design docs
- Performance char.

Risk & Risk Assessment

- Level of Detail
- Program Oversight level of detail

MIL-STD-881C
APPENDIX A

A.3 WORK BREAKDOWN STRUCTURE LEVELS

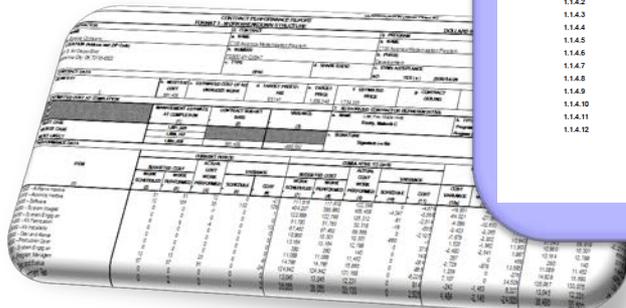
WBS #	Level 1 Aircraft system	Level 2	Level 3	Level 4
1.0	Air Vehicle			
1.1		Airframe		
1.1.1				Airframe Integration, Assembly, Test and Check-out
1.1.1.1				Fuselage
1.1.1.2				Wing
1.1.1.3				Empennage
1.1.1.4				
1.1.1.5				
1.1.1.6				
1.1.2				
1.1.3				
1.1.3.1				
1.1.3.2				
1.1.3.3				
1.1.3.4				
1.1.3.5				
1.1.3.6				
1.1.3.7				
1.1.3.8				
1.1.3.9				
1.1.3.10				
1.1.3.11				
1.1.3.12				
1.1.3.13				
1.1.4				
1.1.4.1				
1.1.4.2				
1.1.4.3				
1.1.4.4				
1.1.4.5				
1.1.4.6				
1.1.4.7				
1.1.4.8				
1.1.4.9				
1.1.4.10				
1.1.4.11				
1.1.4.12				

WBS

31
Source: <http://www.asis400cs.com> - Downloaded 2012-10-12T15:28Z
Check the source to verify that this is the current version before use.

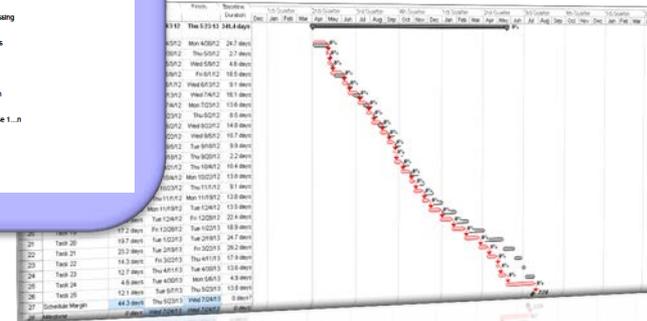
Earned Value

Cost and Schedule Status



Schedule

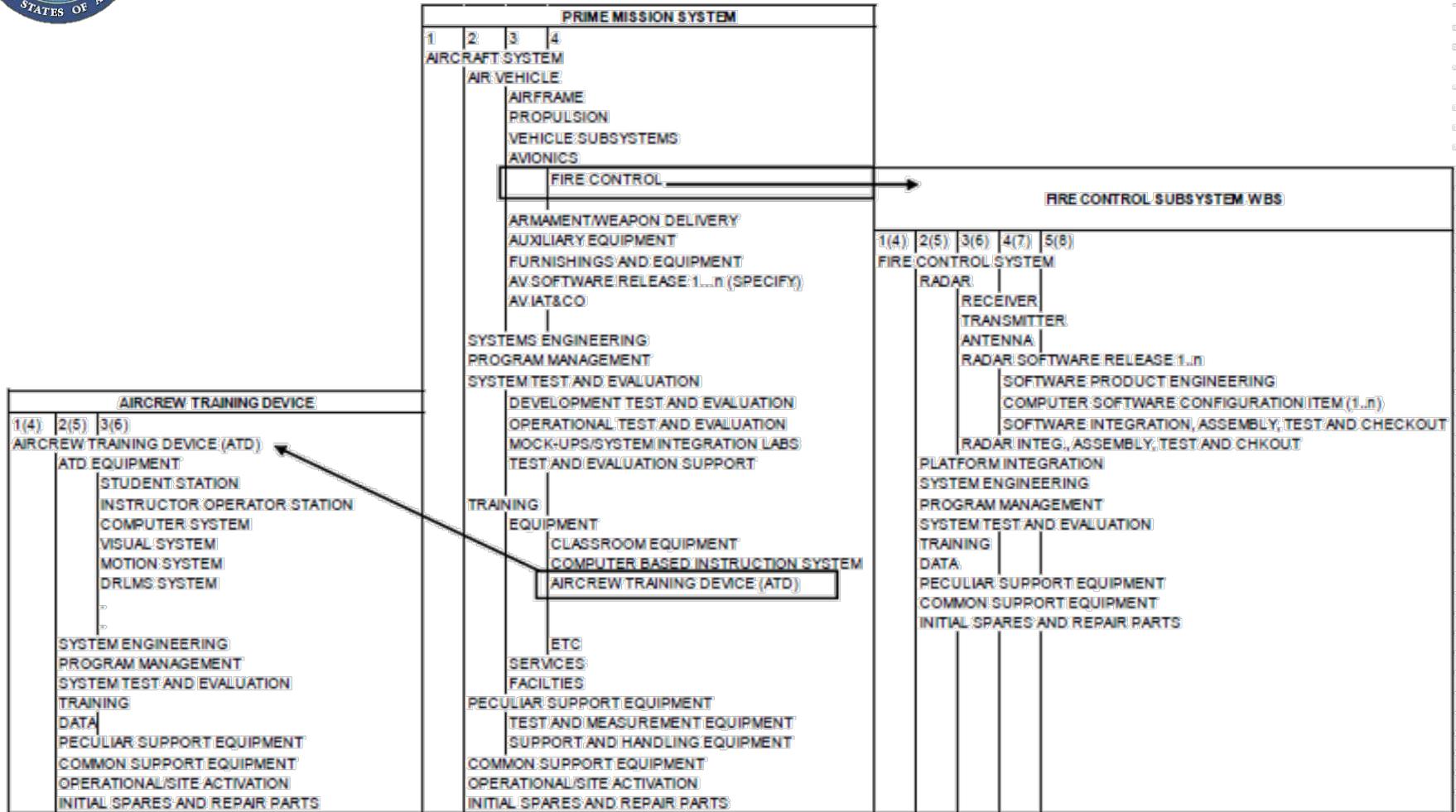
IMP / IMS





**PARCA
EVM**

Program / Contract WBS Relationship



- NOTE:
1. WBS LEVELS IN PARENTHESES INDICATE RELATIVITY TO PRIME MISSION SYSTEM (PMS).
 2. LEVEL 2 ELEMENTS (SYSTEM ENGINEERING/PROGRAM MANAGEMENT, SYSTEM TEST AND EVALUATION, ETC.) FOR SUBSYSTEMS OF THE PMS ARE CONTAINED IN (I.E., ARE SUBELEMENTS OF THE SUBSYSTEM ELEMENT) NOT THE PMS LEVEL 2 ELEMENT
 3. PLACEMENT OF THE SUBSYSTEM IN THE PROGRAM WORK BREAKDOWN STRUCTURE IS RELATIVE TO ITS WBS BREAKOUT FOR CONTRACT APPLICATION

APPROVED FOR WBS BREAKOUT FOR CONTRACT APPLICATION LIMITED: 14-S-0217, OCTOBER 30, 2013.



**PARCA
EVM**

PARCA EVM Data Requirements Training



PARCA EVM

AGENDA – PARCA EVM Data Requirements

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



**PARCA
EVM**

EVM DATA REQUIREMENTS



PARCA EVM

Why Use EVM?

► Benefits

- Integrated technical, cost, and schedule
- Early warning indicators and visibility into drivers of performance
- Objective information to allow proactive decision making and risk management
- Ability to forecast performance and construct corrective action plans
- Checks and balances for accountability
- Tailorable to needs of program
- Communication and coordination across the team

EVM supports all disciplines in their efforts to track progress; does not replace existing measures such as TPM's, risk, etc.



PARCA EVM

EVM Requirements

▶ 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 contact, 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



EVM Requirements

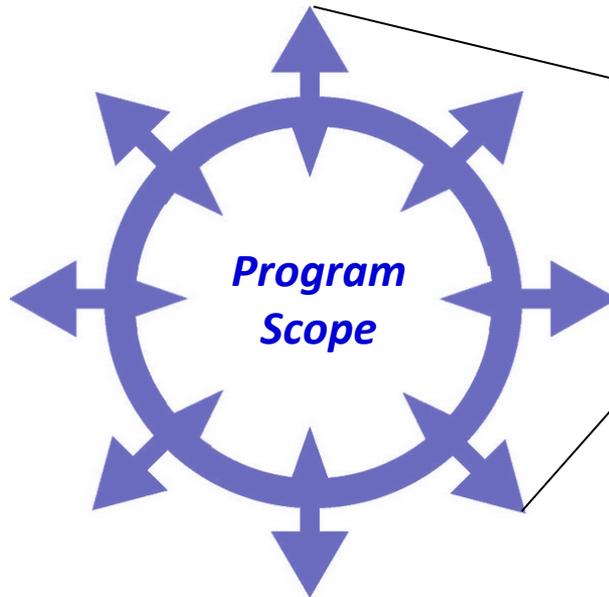
▶ Reporting

- **Integrated Program Management Report (IPMR) Data Item Description (DID)**
 - Required when EVM is required
 - Can be used when IMS is only required
- **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 structure to WBS development for IPMR Format 1 reporting
- **EVM Central Repository (EVM-CR)**
 - Required for ACAT I programs with an EVM requirement on contract



PARCA EVM

Determining EVM Applicability



Part or all of the scope would benefit from the rigors of EVM in program management



Check contract type and value, related efforts, and if a schedule could be run thru the efforts



Validate with color of money and how the contract fits with the bigger picture of the overall Program

PARCA submitted a Policy update on determining EVM applicability on contracts

Use IPMR DID as basis to tailor for any contract type



**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
AMSC NUMBER: D7549
DTIC APPLICABLE:
PREPARING ACTIVITY: OUSD(AT&L)ARA/AM(SO)

APPROVAL DATE: 20050330
LIMITATION:
GIDEP APPLICABLE:

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
AMSC NUMBER: D7544
DTIC APPLICABLE:
PREPARING ACTIVITY: OUSD(AT&L)ARA/AM(SO)

APPROVAL DATE: 20050330
LIMITATION:
GIDEP APPLICABLE:

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 DTD is applicable to development, major modification, and low rate initial production efforts; it is not typically used for...

Schedule
Reporting
(IMS)

DATA ITEM DESCRIPTION

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

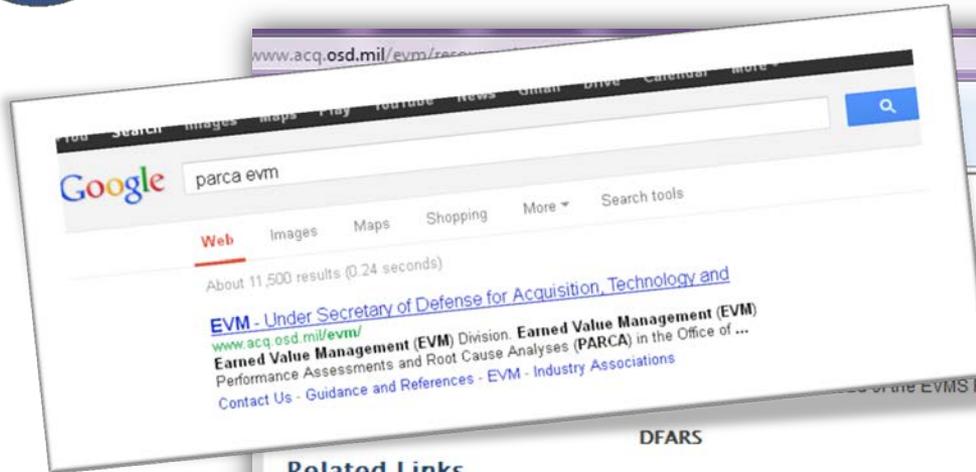
Approval Date: 20120620
Limitation:
GIDEP Applicable: No

<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



www.acq.osd.mil/evm/...

Google parca evm

About 11,500 results (0.24 seconds)

www.acq.osd.mil/evm/
EVM - Under Secretary of Defense for Acquisition, Technology and ...
 Earned Value Management (EVM) Division. Earned Value Management (EVM) Performance Assessments and Root Cause Analyses (PARCA) in the Office of ...
 Contact Us - Guidance and References - EVM - Industry Associations

DFARS

- Notice of Earned Value Management System (Apr 2008), [DFARS 252.234-7001](#)
- Earned Value Management System (May 2011), [DFARS 252.234-7002](#)
- Contractor Business Systems (May 2011), [DFARS 252.242-7005](#)

Standards, Data Item Descriptions (DIDs) and Electronic Data Delivery

- [Contract Funds Status Report DID](#)
- [Contract Work Breakdown Structure DID](#)
- [Electronic Data Interchange \(EDI\) / Extensible Markup Language \(XML\)](#)
- [United Nations Centre for Trade Facilitation and Electronic Business \(UN/CEFACT\)](#)
- [MIL-STD-881C Work Breakdown Structures for Defense Materiel Items](#)
- [UN/CEFACT XML Schemas for Project Management Data Exchange](#)
- **New** [Integrated Program Management Report DID](#)

DODI 5000.02: Acquisition policy

- [Notice of Release](#)
- [Final version, 2008](#)





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.
- ▶ The DID is applied with DFARS 252.52-7001/7002.
- ▶ Generally the full IPMR is applicable for cost and incentive contracts greater than \$20M.
 - IMS and the associated schedule analysis are separable and may be applicable when EVM is not required.



PARCA EVM

Getting Started

IPMR Value to Government

- ▶ The IPMR's primary value to the Government is its utility in reflecting current contract status and projecting future contract performance
 - Allows **flexibility in tailoring** to provide the right type and volume of information for the various contract types and situations
 - It will be 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
 - **Integrate cost and schedule** performance data with objective technical measures of performance



PARCA EVM

Getting Started Friends of the IPMR DID

- ▶ IPMR Guide (in final OSD review & processing)
- ▶ OSD IPMR CDRL Template (finalized; being placed on website)
- ▶ IPMR Release Memo
- ▶ MIL STD 881c
- ▶ Earned Value Management Central Repository (EVM-CR)
- ▶ Service/Agency CDRL Templates & Guides
- ▶ PARCA Issue & Interpretation Clearinghouse
 - Website: <http://www.acq.osd.mil/evm/ir/index.shtml>

EVM EARNED VALUE MANAGEMENT

Interpretation and Issue Resolution Submitter Contact Information

Organization Phone Number

Last Name Job Title Industry/Government



What data to expect

Cost and Schedule

Task Name	Start	Finish	8/07	Sep 2, 07	Sep
1 - Program Event	Wed 8/29/07	Fri 9/7/07			
(PE) Program Event Completed	Fri 9/7/07	Fri 9/7/07			
3 - Significant Accomplishment 1	Wed 8/29/07	Fri 9/7/07			
(SA) Significant Accomplishment Completed 2	Fri 9/7/07	Fri 9/7/07			
5 - Accomplishment Criteria 1.1	Tue 9/4/07	Fri 9/7/07			
(AC) Accomplishment Criteria Completed	Fri 9/7/07	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			
(AC) Accomplishment Criteria Completed	Mon 9/3/07	Mon 9/3/07			
13 Task 1.2.1	Wed 8/29/07	Wed 8/29/07			
14 Task 1.2.2	Thu 9/3/07	Thu 9/3/07			
15 Task 1.2.3	Fri 9/7/07	Fri 9/7/07			
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
- Annual historical & future plan spread

► Schedule Reporting

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



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
- **Format 2**
 - Defines cost and schedule performance data by the contractor's organizational structure (e.g., Functional or Integrated Product Team (IPT))
 - **Benefit:** Enables analysis of EVM performance at organizational elements



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.”

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

Important for variance analysis



What data to expect IPMR Data Item Description (DID)

- **Format 3**

- Defines time phased changes to the Performance Measurement Baseline (PMB)
- Also provides estimated and original contract completion dates
- **Benefit:** Enables analysis to track shifts in PMB

ITEM	BCV/S CURRSLA TIVE TO DATE	BCV/S FOR REPORT PERIOD	BUCKETED COST FOR WORK SCHEDULED (BCV/S) (Non-Cumulative)										UNQS- TRIBUTED BUDGET	TOTAL BUDGET		
			SIX MONTHLY FORECAST						ENTER DESCRIBED PERIOD							
			+1	+2	+3	+4	+5	+6								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
A. PERFORMANCE MEASUREMENT BASELINE (Beginning of Period)																
B. BASELINE CHANGES AUTHORIZED DURING REPORT PERIOD																
C. PERFORMANCE MEASUREMENT BASELINE (End of Period)																
D. MANAGEMENT RESERVE																

- **Format 4**

- Defines staffing forecasts through program lifecycle
- **Benefit:** Enables tracking and analysis to determine accuracy of labor estimates



IPMR Data Item Description (DID) cont.

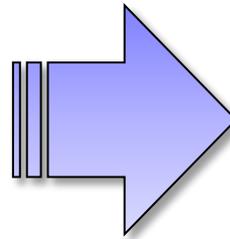
- **Format 5**
 - Narrative report used to provide variance analysis of data contained in Formats 1-4 and 6 and corrective actions
 - Links information in the schedule to the cost status
 - **Benefit:** Analysis provides PM with information to make informed decisions
- **Format 6**
 - Defines and contains the contractor's Integrated Master Schedule (IMS)
 - Previously was in a separate DID
 - **Benefit:** Enables analysis to predict milestone and program completion dates
- **Format 7**
 - Defines the annual reporting of time-phased historical and forecast cost submission
 - **Benefit:** Enhances Government analysis beyond information in Format 1 or 5



**PARCA
EVM**

What data to expect

Focused Variance Analysis



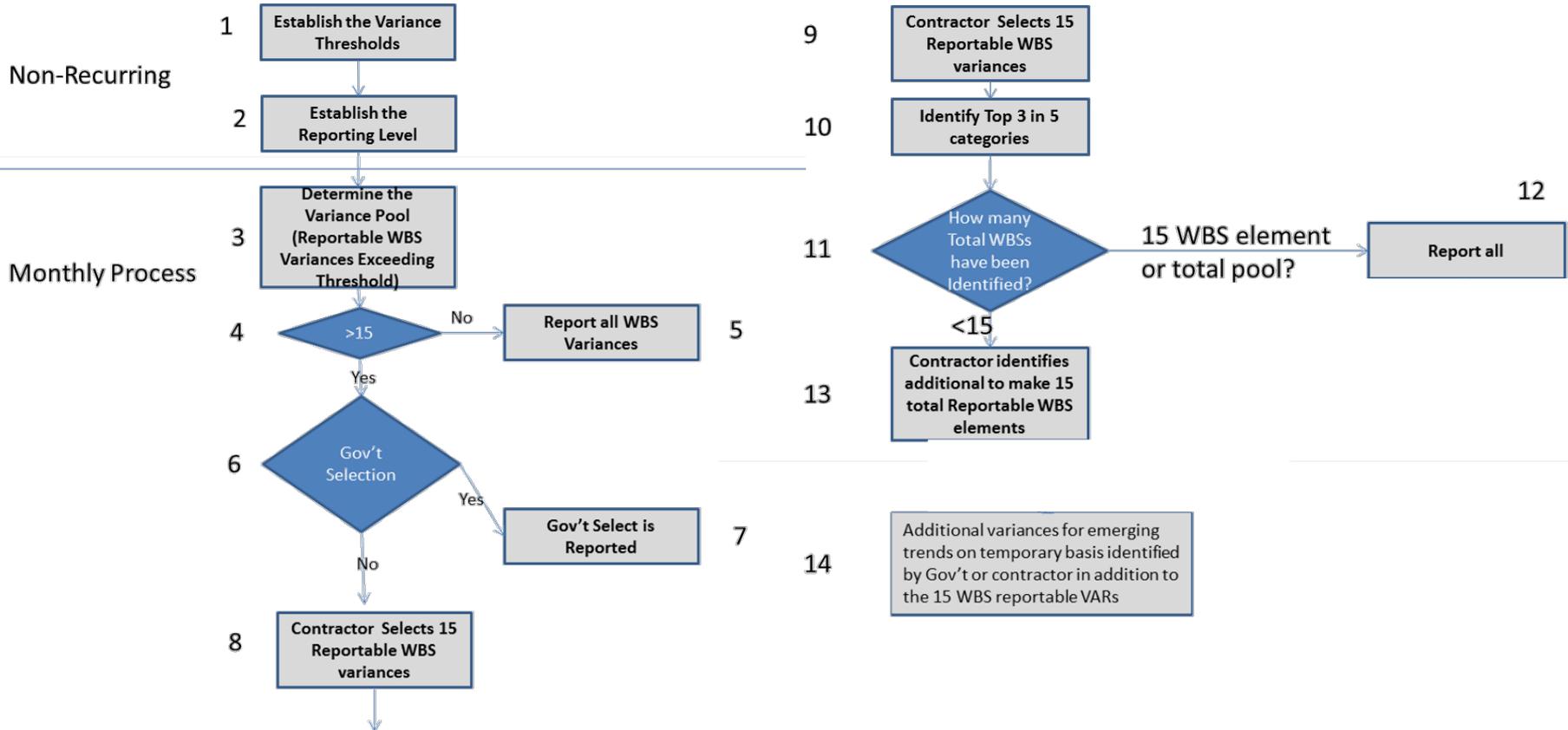
Just getting all variances can lead to piles of unused information and/or information that's too hard to wade through

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





PARCA EVM

What data to expect Schedule Highlights

- ▶ Emphasis on integrated analysis with cost data
- ▶ UN/CEFACT XML requirement
- ▶ 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
- ▶ Definition of Schedule Margin & SVTs included
- ▶ Critical & Driving Paths
 - Tasks with “0” or negative total float are not by default the critical path.
 - Driving path and interim milestones defined (not in 2005).
- ▶ All non-constrained discrete tasks/activities/milestones shall have at least one predecessor and successor, except the start and end of the program



What data to expect Subcontractor Data

▶ *Overall:*

- The Government may require separate submission(s) of subcontractor IPMRs; submissions would be required per the IPMR instructions and electronic data submission requirements

▶ *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 a realistic critical path



PARCA
EVM

What data to expect Read the Guide



IPMR
Implementation Guide

Finalized and placed on
PARCA EVM website

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

► *Items specifically addressed/clarified:*

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



Customize your order
General Tailoring

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

- ▶ General 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



PARCA EVM

Customize your order

Notable IPMR Tailorable Items

1. **Cost and Schedule data delivery:** 12 working days; DID allows for as late as 17 WD where technical or other significant issues exist
2. **History & future budget spread delivery:** Annual requirement: select a timeframe that meets the PMO needs
3. **EVM-CR requirement:** Only for ACAT I programs with an EVM requirements on contract
4. **Alternate formats:** Formats 1-4 may be required in hours and/or human readable formats as optional items
5. **Level of WBS for history & future budget spread:** Same as WBS (Format 1) level; can be down to the control account level



Notable IPMR Tailorable Items Cont'd

6. **Significant baseline changes (Format 3):** Example given in CDRL; to be evaluated by PMO to ensure it meets risk needs
7. **Baseline change reporting period columns (Format 3):** PMO can select breakout of timeframe in the columns outside the 6-month window
8. **Staffing units:** Specify if staffing is in hours, equivalent heads, or total headcount
9. **Significant staffing changes (Format 4):** Example given in CDRL; to be evaluated by PMO to ensure it meets risk needs
10. **Staffing reporting period columns (Format 4):** PMO can select breakout of timeframe in the columns outside the 6-month window



Notable IPMR Tailorable Items Cont'd

11. **Variance thresholds (Format 5):** Example given in CDRL; example threshold values are general default positions and should be evaluated by PMO based on program scope and risk
12. **SRA frequency:** SRAs required delivered prior to IBR and OTB; PMO can chose additional deliveries or timing
13. **IMS reserve fields:** If PMO has specific special fields or flags needed in the schedule submission, they should be listed

▶ Notes:

- Format 3 & 4 “significant” and Format 5 variance thresholds do not have a default value in the DID and must be specified in the CDRL
- Services/Agencies may have additional or slightly different tailoring restrictions or requirements than those listed in the briefing



**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?





XML

- ▶ Replaces the existing ANSI X12 Electronic Data Interchange (EDI) transaction sets (806 and 839) with an XML equivalent
- ▶ XML: Extensible Markup Language (XML)
 - Markup Language: modern system for annotating a document in a way that is syntactically distinguishable from the text is a markup language
 - Defines a set of rules for encoding documents

```
<?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>
```



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
 - Cost, schedule and the historical information each have a separate set of XML guidance
- ▶ 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)*



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



Industry **Guidelines** – 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



How data is reported Data Exchange Process

Subcontractors (or Partners)

- Exports XML instance file and delivers to the Prime
- Prime Contractor may add additional requirements to XML standard guidelines to match contract needs



Prime Contractor

- Imports Subcontractor XML instance files into toolsets of choice
- Exports consolidated cost or schedule data from toolsets of choice to XML instance file
- XML instance file follows guideline requirements
- Posts XML instance files for Central Repository



OSD Central Repository

- Performs XML instance file conformance check using base schemas and guidelines
- Accepted files are available for analyst's use
- Posted XML instance files provide an archive of history data for future analysis – open source format enables ability to read historical files in the future



OSD and Agency Customer

- Parses or selects desired data from XML instance files (summary or detail data)
- Transforms XML instance file content into desired format
- Imports data into toolsets of choice for analysis and/or reads the data for human consumption – produce IPMR report

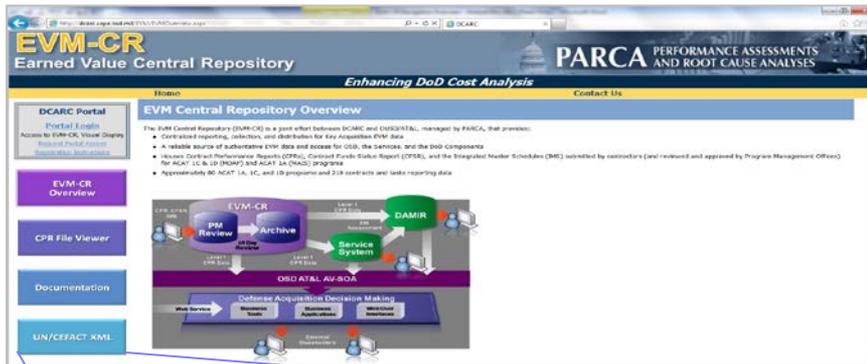


PARCA
EVM

How data is reported

Where to Find the XML Guides/Schemas

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



- Current release of schema and instructions dated as of Sept 2012
- Updated versions in works for Fall 2013 release



PARCA EVM

Customize your order **XML Help**

- ▶ UN/CEFACT XML Working Group
 - Joint working group of industry, Government, and software vendors
 - Meets via telecon approx twice a month
 - 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 EVM Central Repository Training



PARCA EVM

AGENDA – PARCA EVM-CR

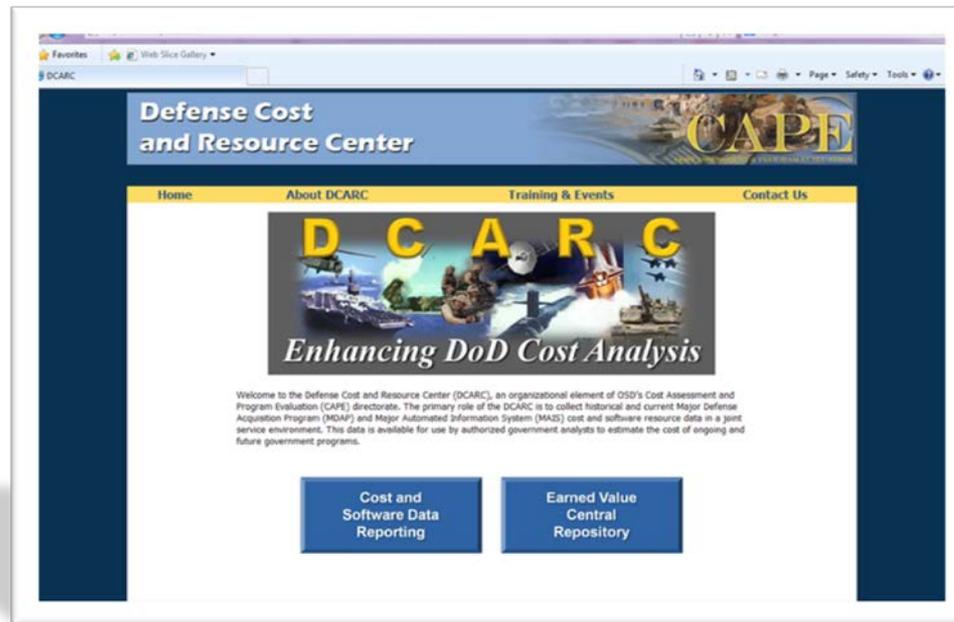
- ▶ EVM-CR Description
- ▶ Submission Process
- ▶ Data Analysis and Viewing
- ▶ Data Delivery Status



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

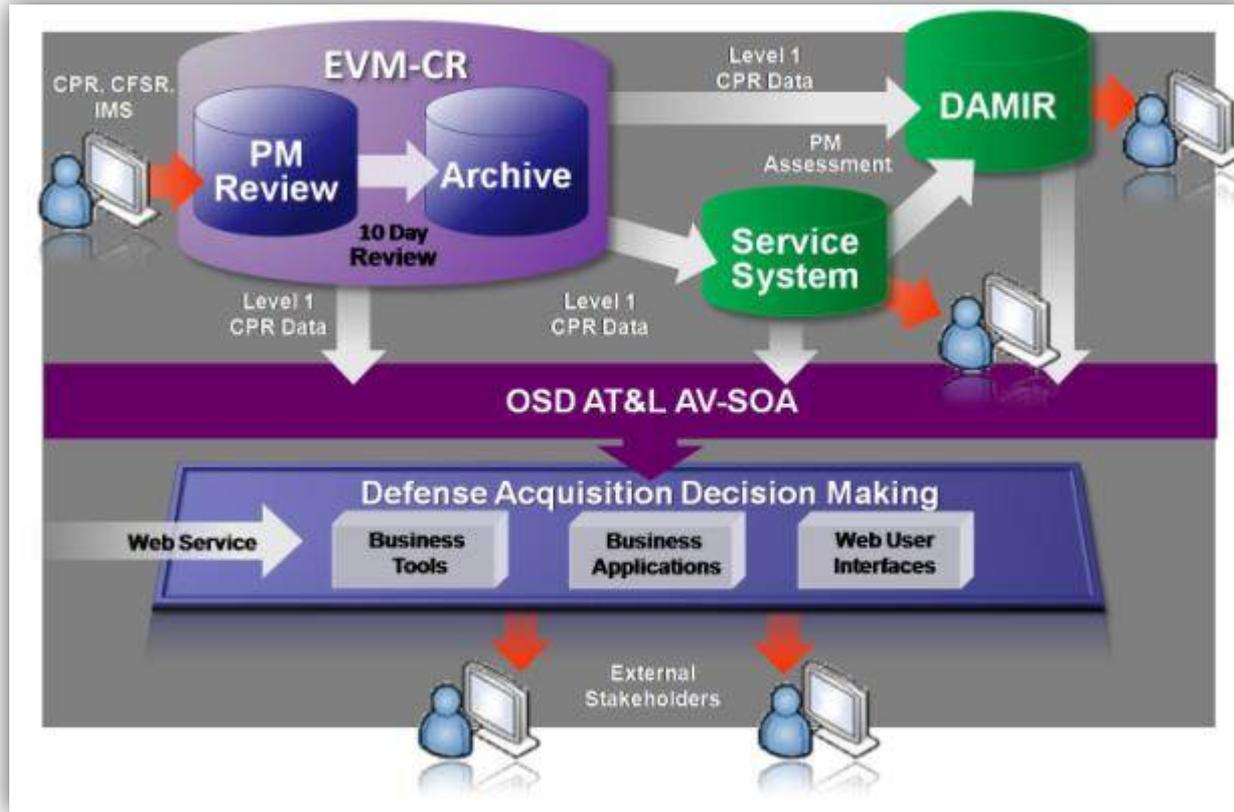
EVM-CR Requirement

- ▶ 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*



EVM-CR System

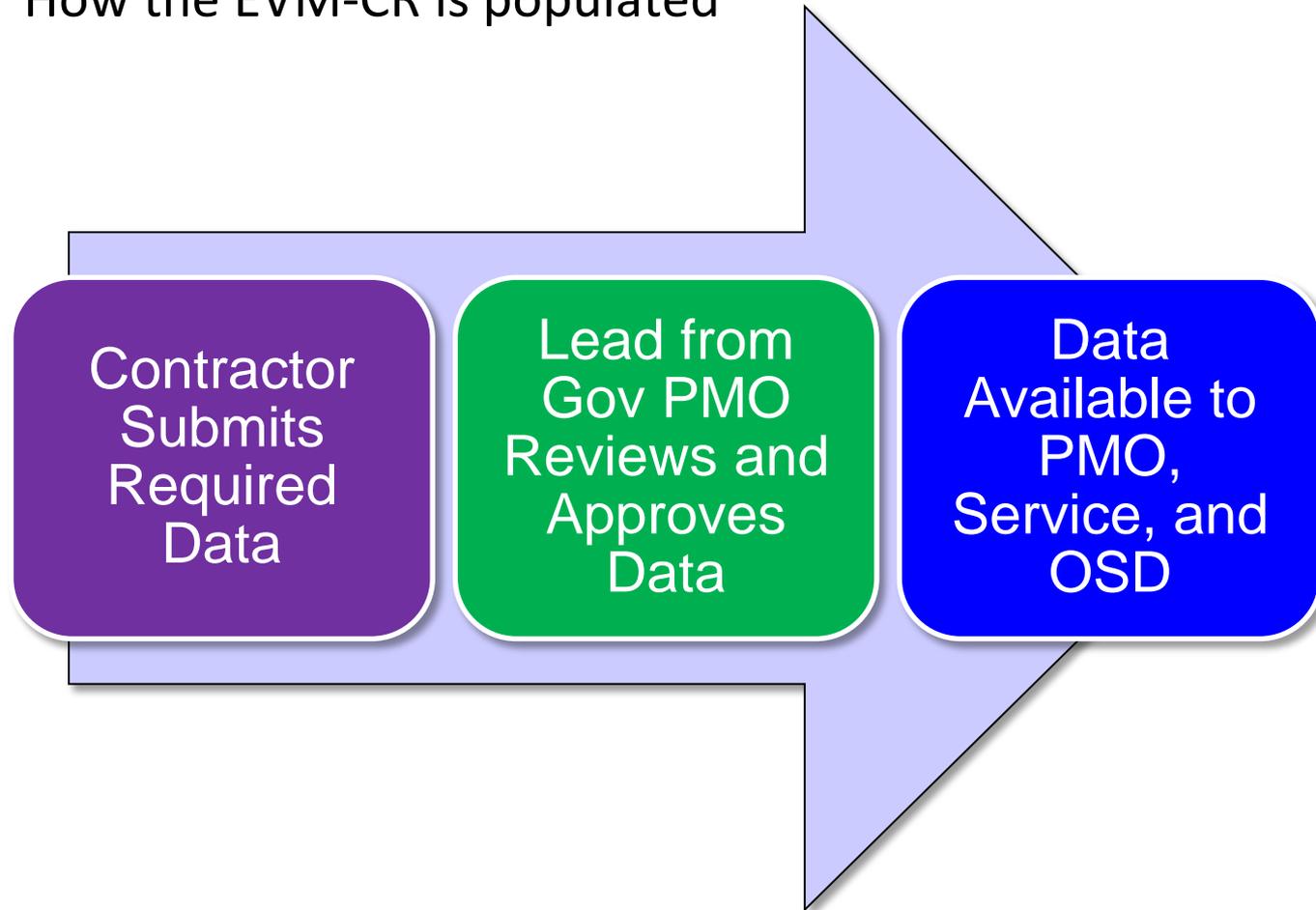


- ▶ EVM-CR supports various service and OSD systems, including support of the DAES review process



Workflow

- ▶ How the EVM-CR is populated





PARCA EVM

Requesting an Account

- ▶ 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 have access to all contracts within their respective service

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

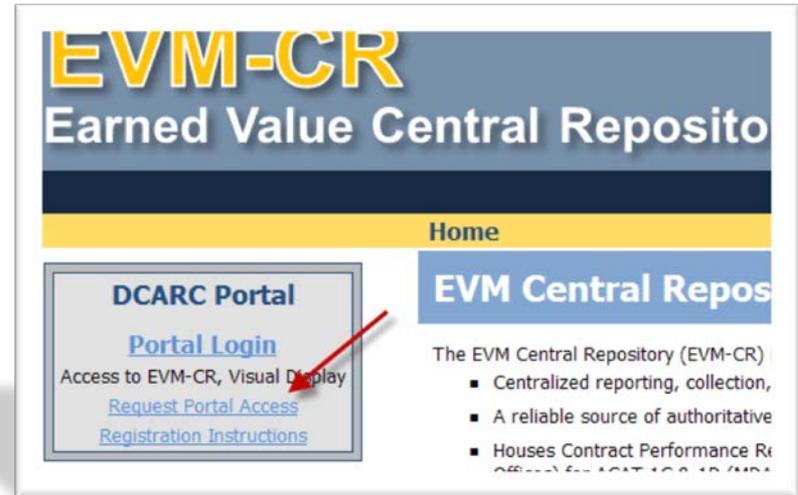
- ▶ Summary data extracted by OSD DAMIR system for use in DAES process



PARCA EVM

Data Access

- ▶ Data access must be requested at the EVM-CR



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

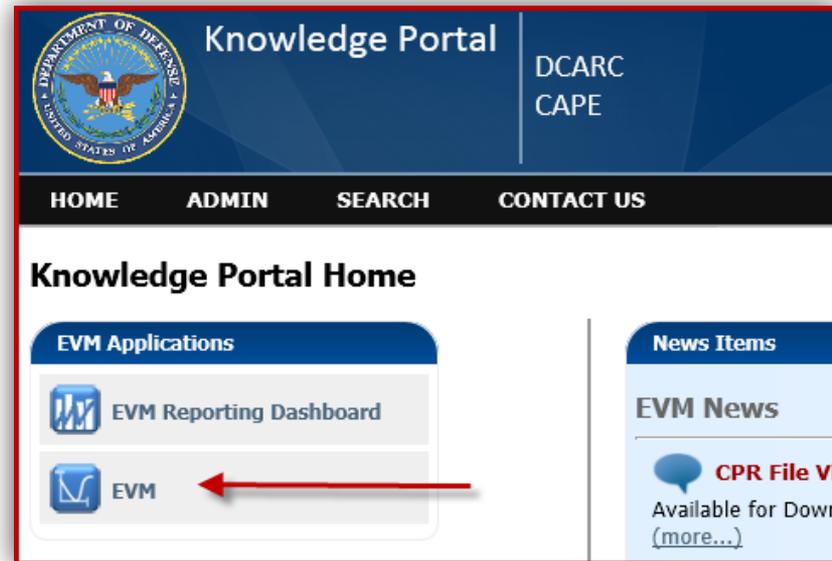
▶ Reviewer

- PMO team member that reviews submitted files
- Lead reviewer must be a Gov civilian or military; has authority to approve or reject files in submission



Accessing the EVM Website

- ▶ 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
- ▶ First time you access you have to use your ID and password, but then can link you CAC for future access





PARCA EVM

Navigation; Analyst Home

- ▶ The Analyst Home page allows the Analyst to group programs by Service, DAES Group, ACAT and Commodity Group
- ▶ They can also filter on some of this same criteria



Analyst Home: Program Detail

▶ The Program Detail page provides the following information about a program:

- The current ratings for the EVM-CR DAES Assessment
- Contracts established in the EVM-CR
- Quick Links to view the CPR Data and Program Status reports

Program Detail

CPR-000 - Global Positioning Satellite New Generation Control Segment

Program Information

Name: *CPR-000 - Global Positioning Satellite New Generation Control Segment* **PNO:**

Short Name: **Group:** MDAP **ACAT:** Unk **DAES Group:** **MDAP:**

Number of Contracts: 3 **With CPR Data:** 3

Latest Assessment

Title: *CPR-000 - Global Positioning Satellite New Gen...*

Comment: Routine Assessment

Finalized Date: 1/3/2013

Metric	Score
Overall Assessment	● Ok
CPR CDRL	● Submitted
EDI Applied On CPR CDRL	● Correctly Applied
CFSR CDRL	● Submitted
IMS CDRL	● Submitted
CPR Submissions	● On Time
CPR EDI Compliance	● Good
CFSR Submissions	● On Time
IMS Submissions	● On Time
History File	● Older than 1 Year

Contracts

Prime Contract Number	Sub Contract Number	Reporting Contractor	Reporting Division
<i>CPR-000-0001</i>		<i>Boeing</i>	<i>Boeing</i>
<i>CPR-000-0002</i>		<i>Boeing</i>	<i>Boeing</i>
<i>CPR-000-0003</i>		<i>Boeing</i>	<i>Boeing</i>

Quick Links

[View CPR Data Reports](#)

[View Program Status Report](#)

[View Contract Task CPRs](#)



Reports & Metrics

- ▶ Options available from the 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 DAES Assessment Report – This report displays a snap-shot view of EVM-CR DAES Assessments for all programs
 - EVM-CR Dashboard – The EVM Dashboard report summarizes the data in the EVM-CR using colorful pie charts and stacked bar charts
 - 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



PARCA EVM

Reports & Metrics: CPR Data Report

When selecting the CPR Data Report, presented will be 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	PNO	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	OriginalNCC	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							

APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED: 14-S-0219, OCTOBER 30, 2013.



Search Contracts

- ▶ Click the Search Contracts option under My EVM to begin search
- ▶ Enter search criteria below and click Search Contracts

Search Contracts

* Please enter as much information that is known about the contract and press Search.

Contract Number:	<input type="text"/>	Military Handbook:	<input type="text" value="AIRCRAFT"/> ELECTRONIC/AUTOMATED SOFTWARE MISSILE ORDNANCE	Program Manager:	<input type="text"/>
Weapon System Type:	<input type="text"/>			Currently Reporting:	<input type="checkbox"/>
Program Name:	<input type="text"/>	Service:	<input type="text" value="AIR FORCE"/> ARMY NAVY DOD		
Contractor Name:	<input type="text"/>				
Contractor Division:	<input type="text"/>				

Search Contracts

Clear Search Criteria



PARCA EVM

Search Results

- Your search results will be displayed as shown below; click on the contract number to drill into the contract

Search Contracts

[Show Search Criteria](#)

Prime Contract Number	Sub Contract Number	Contract Task	Program Name	Contractor	Contractor Division	First Report Date	Last Report Date	Military Handbook	Weapon System Type	Service	Contract Type
...		...	...	...	...	2/19/2007	12/20/2012	...	...	...	CPIF/FFP/FPAF
...		...	...	...	...	11/30/2006	8/31/2012	...	...	...	CPAF
...		...	...	...	...	2/22/2007	12/17/2009	...	...	...	CPAF
...		...	...	...	...	1/18/2007	12/20/2012	...	...	...	CPAF
...	KS8108	...	...	...	...	1/25/2007	10/31/2012	...	...	...	CPAF
...	KS8112	...	...	...	...	1/25/2007	6/30/2009	...	...	...	CPAF
...		...	...	...	...	2/3/2007	2/3/2007	...	...	...	CPIF
...		...	...	...	...	1/25/2008	12/31/2012	...	...	...	CPAF
...		...	...	...	...	2/4/2007	12/30/2012	...	...	...	CPAF/TM
...		...	...	...	...	12/21/2007	2/24/2012	...	...	...	CPIF/CPAF

1 2 3 4 5 6 7 8 9 10 ...



PARCA EVM

Contract Detail: Contract Summary

- ▶ Displays basic identifying information about this contract
- ▶ Shows EVM metrics, and Program Delivery Status

Contract Detail

Program: Death Star Program (Testing Purposes) Reporting Contractor: Rambo Systems Contract Type: CPAF EDI Required?: Yes

Service: DOD Contract Number: N0000-00-0002 Sub Contract Number: Start Date: 5/1/2013 End Date: 5/1/2014 Reporting Stopped?: No

Contract Summary | Reviewers & Submitters | Received Submissions | Contract Attachments | EDI Waiver | Contract Events

Contract Summary:

Contract Task
66'
66'
66'

DAU Gold Card Metrics by Contract Task (Single Dollars):

DoD Tripwires	Value
CPI	1.00
SPI	1

Key Metrics	Values
BCWP	
BCWS	
ACWP	
BAC	
EAC (reported)	
EAC (cpi)	
EAC (composite)	

Variations	Values
Cost Variance	
Schedule Variance	
Variance at Complete	
CV %	
SV %	

Metric Name	Values
% Schedule	100
% Complete	100
% Spent	99.57
TCPI eac	1

CPI

SPI

[View CPR Data Report](#) for currently selected contract

Legend

Contract Task	EDI Applied on CDRL	Jul '2013	Aug '2013	Sep '2013	Latest History File	Pct Complete
	IPMR Cost on Time	IPMR Cost Compliance	IPMR Cost Compliance	IPMR Cost Compliance	6/24/2013	100
	IPMR Cost Compliance	Formatted Cost on Time	Formatted Cost on Time	Formatted Cost on Time		
	Native Schedule on Time	Native Schedule on Time	Native Schedule on Time	Native Schedule on Time		
	CFSR on Time	CFSR on Time	CFSR on Time	CFSR on Time		



Contract Detail: Rec'd Submissions

- ▶ The Received Submissions tab displays all submissions that have been submitted on this contract

Contract Detail

Program: Death Star Program (Testing Purposes) Reporting Contractor: Rambo Systems Contract Type: CPAF EDI Required?: Yes
 Service: DOD Contract Number: N0000-00-0002 Sub Contract Number: Start Date: 5/1/2013 End Date: 5/1/2014 Reporting Stopped?: No

Contract Summary Reviewers & Submitters **Received Submissions** Contract Attachments EDI Waiver Contract Events

Received Submissions:

Contract Task: All Report Categories: All Latest Submission Status: All

Submission ID	Contract Task	Report Category(s)	Report Date	Submitted Date	Status Date	Status Set By	Status
23179		IPMR Cost, Formatted Cost	7/25/2013	7/26/2013	8/6/2013	System	Published
23174		Formatted Cost	7/25/2013	7/26/2013	8/6/2013	System	Published
23165		IPMR Cost	9/30/2012	7/23/2013	7/23/2013	Eric Guerber	Published
23164		IPMR Cost	10/28/2012	7/23/2013	7/23/2013	Eric Guerber	Published
23163		IPMR Cost	11/25/2012	7/23/2013	7/23/2013	Eric Guerber	Published
23162		IPMR Cost	5/26/2013	7/23/2013	7/23/2013	Eric Guerber	Published
23161		IPMR Cost	3/31/2013	7/23/2013	7/23/2013	Eric Guerber	Published
23160		IPMR Cost	7/29/2012	7/23/2013	7/23/2013	Eric Guerber	Published
23159		IPMR Cost	1/27/2013	7/23/2013	7/23/2013	Eric Guerber	Published
23158		IPMR Cost	2/24/2013	7/23/2013	7/23/2013	Eric Guerber	Published

1 2

- ▶ To access, click on the underlined Submission ID number
 - Only able to access submissions with a status of Published



Submission Detail: Contract

- ▶ Once you click on a Submission ID number the Submission Detail will be displayed. The Contract tab shows the contract information

Submission Detail

Program: Death Star Program (Testing Purposes)

Contract Number: N0000-00-0002

Submission ID: 23179

Contract Task: Clin-22 Test

Contract

Submission

Files

Reviewers

Contract Information

<p>Cntr #: N0000-00-0002</p> <p style="margin-left: 20px;">Ctr: Rambo Systems</p> <p style="margin-left: 20px;">Division: Awesome Weapon Development</p> <p style="margin-left: 20px;">Location:</p> <p style="margin-left: 20px;">Cage Code: DD0011</p>	<p>Sub Cntr #:</p> <p style="margin-left: 20px;">Sub Ctr:</p> <p style="margin-left: 20px;">Division:</p> <p style="margin-left: 20px;">Location:</p> <p style="margin-left: 20px;">Cage Code:</p>	<p>Program</p> <p style="margin-left: 20px;">Program Name: Death Star Program (Testing Purposes)</p> <p style="margin-left: 40px;">PNO: 001</p> <p style="margin-left: 20px;">Program Mgr: Luke Skywalker</p> <p style="margin-left: 40px;">Service: DOD</p> <p style="margin-left: 20px;">Mil Handbook: AIRCRAFT</p> <p style="margin-left: 40px;">Weapon Sys: Aircraft</p>
---	---	---

Contract Tasks: [REDACTED]

Contract Type: CPAF **Start Date:** 5/1/2013 **End Date:** 5/1/2014 **Stops Contract Reporting?:** No **EDI Required On Contract?:** Yes



Submission Detail: Submission

- ▶ The Submission tab will display information about the submission such as when it was submitted, current status and report type

Submission Detail

Program: Death Star Program (Testing Purposes)

Contract Number: N0000-00-0002

Submission ID: 23179

Contract Task: Clin-22 Test

Contract
Submission
Files
Reviewers

Submission Information

Submission Task: Clin-22 Test	Year: 2013	Month: 7	Report Type(s): IPMR Cost, Formatted Cost
Submission ID: 23179	Report Date: 7/25/2013	Submission Date: 7/26/2013	
Resubmit: No	Status: Published	Status Set By: System	Status Set Date: 8/6/2013
Historical PM: Luke Skywalker	Submitter Name: Eric Guerber	Submitter Comment:	

Point of Contact Information

Name: Eric Guerber **Phone:** 253-564-1979

Fax: **Email:** eguerber@tecolote.com.local

[View submission history](#)



Submission Detail: Files

- ▶ The Files tab will display all files uploaded with the submission. Click the file name to open or save the file.
- ▶ To view the data extract from the XML or TRN file click, the View Submission CPR button

Submission Detail

Program: Death Star Program (Testing Purposes)

Contract Number: N0000-00-0002

Submission ID: 23179

Contract Task: Clin-22 Test

Contract Submission **Files** Reviewers

Submission Files

	File Name	File Type	CPR Level	File Comment
	UAV_Development_20130725_XML.xml	IPMR Cost	Total	
	UAV_Development_20130725_XML.xml	IPMR Cost	Total	
	BROKEN_UAV_Development_20130725_XML.xml	Formatted Cost		
	UAV_Development_20100725_TRN.trn	IPMR Cost	Component	
	UAV_Development_20100725_TRN.trn	IPMR Cost	Component	

[View Submission CPRs](#)



Submission Detail: Reviewers

- ▶ Each Lead Reviewer and Reviewer assigned to the contract will be listed here along with their vote to approve or reject the submission and any comments they have entered

Submission Detail

Program: Death Star Program (Testing Purposes)

Contract Number: N0000-00-0002

Submission ID: 23179

Contract Task: Clin-22 Test

Contract Submission Files **Reviewers**

Submission Reviewers

Reviewer	Organization	Role	Status	Status Date	Comment
Eric Guerber	SPSG - Tecolote Research Inc.	Lead Reviewer	Pending		



**PARCA
EVM**

EVM-CR SUBMIT & REVIEW PROCESS



Lead Reviewer; Program Setup

- ▶ For a submission of data to occur, the Lead Reviewer must establish the Program(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



Submitter Lifecycle

- ▶ 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



Submission Steps / Status

- ▶ **STEP 1: Select Event**
 - Select a contract/event
 - Specify Report Date and POC information
- ▶ **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**
 - Status of data file upload set to PENDING (i.e., awaiting review by Gov)



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
 - XML files will be tested for compliance to the applicable schema

DO NOT MARK “CLASSIFIED”, etc. EVM-CR is for unclassified submissions only!



STEP 1: Upload Home

Navigation

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

[Portal Home](#) | [Contact Us](#) | [EVM Administration](#) | [EVM Home](#) | [Upload Home](#) | [Review Submissions](#) | [Search Contracts](#) | [Search Submissions](#)

Upload Home

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

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

Upcoming Submission Events

No upcoming submission Events

Search Submission Events

Contract Number: Contract Task: Program:

Expected Submission Date: After: Before:

Expected Report Date: After: Before:

Submission Events With Submissions, Without Submissions, Both.



STEP 1: Upload Home

Select "Upload" to start or continue a submission

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

EVM Central Repository

Defense Cost and Resource Center - Enhancing DoD Cost Analysis

Username: jhorner Roles: EVM_Admin, EVM_Analyst, EVM_Reviewer, EVM_Submitter, EVMWS_Admin, Portal_Admin [Log Out](#)

[DCARC Home](#) [Contact Us](#) [EVM Administration](#) [EVM Home](#) [Upload Home](#) [Review Submissions](#) [Search Contracts](#) [Search Submissions](#)

Upload Home

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

[Submissions in Progress](#) [Assigned Contracts](#) [Submission Events](#)

Upcoming Submission Events

Event Name	Expected As Of Date	Expected Submission Date	Prime Contract Number	Sub Contract Number	Contract Task	Program Name	
Test-03	3/1/2008	3/1/2008	AAAA01-01-A-A004	AAAA01-01-A-A005	Task 1	Extended Range Active Missile (Standard Missile-6)	Upload
March CPR	3/1/2008	3/17/2008	111		2nd Task	Mobile User Objective System (MUOS)	Upload
March CFSR	3/1/2008	3/17/2008	111		2nd Task	Mobile User Objective System (MUOS)	Upload
March IMS	3/1/2008	3/17/2008	111		2nd Task	Mobile User Objective System (MUOS)	Upload

Search Submission Events

Contract Number: Contract Task: Program:

Expected Submission Date: After: Before:

Expected As Of Date: After: Before:

Submission Events With Submissions, Without Submissions, Both.

[Search Submission Events](#)

Click here to Upload

Fill in search criteria and click here



STEP 1: Start Submission Event

Upload Submission
[Back](#) | [Cancel Submission](#)

Submission Info | **Files**

Contract Information

Program Name: ARH-70 (Armed Reconnaissance Helicopter)	Program URI: urn:us:mil:osd:acq:cars:pno-179	Program Manager: SFAE-AV
Contract Number: W58RGZ-05-C-0234	Contractor Name: Bell Helicopter Textron, Inc.	Contractor Division: N/A
Sub Contract Number: Unk-RAH-Rockwell	Sub Contractor Name: Rockwell Collins	Sub Contractor Division: Defense Electronics Systems
Military Handbook: AIRCRAFT	Service: ARMY	
Weapon System Type: Reconnaissance Attack Helicopter	Contract Type: CPIF	
Contract Tasks: RDT&E		

Contract Task & Submission Event

Contract Task: RDT&E
 Submission Event: Dummy
 Expected Report Date: 6/8/2007
 Expected Submission Date: 6/8/2007

<p>Submission Details</p> <p>Report Date: <input type="text" value="5/5/2008"/></p> <p>Comment: <input type="text" value=""/></p>	<p>Point of Contact Information</p> <p>Name: <input type="text" value="John McGahan"/></p> <p>Phone: <input type="text" value="253 564 1029"/></p> <p>Fax: <input type="text" value=""/></p> <p>Email: <input type="text" value="jmcgahan@tecolote.com"/></p>
--	--



Step 2: Upload Files

Upload one or more files to a submission

- Tag with appropriate “file type”
- Attach brief descriptive comment

Upload Submission

[Back](#) | [Cancel Submission](#)

[Submission Info](#)

[Files](#)

Unclassified Documents Only

Select a file to Upload

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

Please select a File Type. File
 Comment:

Uploaded Files

There are no files uploaded for this submission.

Submission Files

	File Name	Typical Example	File Comment
	C-5 RERP SDD Format 1 0808.htm	CPR Format 1	
	C-5 RERP SDD Format 2 0808.htm	CPR Format 2	
	C-5 RERP SDD Format 3 0808.htm	CPR Format 3	
	C-5 RERP SDD Format 4 0808.htm	CPR Format 4	
	RERP Format 5 0808.doc	CPR Format 5	
	C5 RERP 0808.xml	CPR XML (wInsight)	



PARCA EVM

Step 3a: Review Data

Back | Previous | Next

Submission Detail

Program: Death Star Program (Testing Purposes)
 Contract Number: N0000-00-0002
 Submission Event / ID: hist / 8647
 Contract Task: USV Development 2

Contract | Submission | **Files** | Reviewers

Submission Files

File Name	File Type
UAV_Development_20100301.xml	History / Backup

[View Submission CPRs](#)

Submission CPR

Back

Process File	FileID	File Name	Processing Status	Processing Error
33694		UAV_Development_20100301.xml	No File	

View	File Name	File Type	File Level	First Period	Latest Period	Number of Periods	Final CPR
4*	UAV_Development_20100301.xml	History / Backup	Total	1/31/2009	3/31/2010	15	

File Details

File Name	File Type	File Level
UAV_Development_20100301.xml	History / Backup	Total

Current Period Information

Current Period: 3/31/2010

Report From: 3/31/2010 To: 3/31/2010

Report Information

Program Name	Phase	Contract Number	Contract Type
UAV RD&TE	OTHER	1	OTHER

Contractor	CPR Prefixes	CPR ID	Final CPR
UAV Systems	0	38149	No <input type="checkbox"/> Set as Final CPR

CPR Header Dollars in Thousands

Quantity	Share Above	Share Below	Original BCC	NCC	CBB	IAB
			\$57,444,702	\$57,444,702	\$57,444,702	\$57,444,702

Best Case EAC	Worst Case EAC	Most Likely EAC	Target Price	Estimated Price	Contract Colling	Estimated Colling
\$49,948,260	\$70,616,306	\$57,411,793	\$54,572,467	\$57,444,702	\$57,444,702	\$57,444,702

Variations

At Complete	Cumulative Schedule	Cumulative Cost	Total Schedule	Total Cost
\$140,074,911 *	\$11,892,935 *	\$22,298,610 *	\$11,892,935 *	\$22,298,610 *

Navigate File Periods

View	Report To	Final CPR
4*	3/31/2010	
4*	2/28/2010	
4*	1/31/2010	
4*	12/31/2009	
4*	11/30/2009	
4*	10/31/2009	
4*	9/30/2009	
4*	8/31/2009	
4*	7/31/2009	
4*	7/1/2009	
4*	5/31/2009	
4*	4/30/2009	



Step 3b: Review & Submit

Upload Submission

[Back](#) | [Cancel Submission](#)

Program: XYZ Test Program
Contract: aaa111aaa

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

Contract Information

Program Name: XYZ Test Program	Program URI: Unknown	Program Manager: Unknown
Contract Number: aaa111aaa	Contractor Name: General Dynamics Corporation	Contractor URI: Unknown
Sub Contract Number:	Sub Contractor Name:	Sub Contractor URI:
Military Handbook: SPACE	Service: NAVY - test	
Weapon System Type: Electronic/Communications Satellite	Contract Type: Unknown	
Contract Tasks: Task 1		

Contract Task & Submission Event

Contract Task: Task 1
Selected Event: Jan 2009 Reports
Expected Report Date: 1/2/2009
Expected Submission Date: 1/31/2009
Expected Files: CPR

Submission Details

Report Date: 1/2/2009
Resubmit: No
Comment:

Uploaded Files

File Name	File Type	CPR Level
Test_Submittal December07.xml	CPR XML (wInsight)	Total

CPRs

View	Final CPR	File Name	File Type
	<input checked="" type="checkbox"/>	Test_Submittal December07.xml	CPR XML (wInsight)

Submission Errors & Warnings

Submission Warnings:

- Test_Submittal December07.xml CPR has data validation warnings, please view the CPR for details.

These warnings are validation warnings for information only.

[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 finalized after 10 (Business/Calendar) days it will be automatically published
 - Optionally can notify managerial oversight reviewers of submission prior to publish/reject decision



Review Submissions

Finding Submissions

- Submissions: All submissions (that require your action)
- Contracts: You have review role authority
- Submission History: Prior submissions across all contracts with you as reviewer

Submission Review Home

[Submissions](#)

[Contracts](#)

[Submission History](#)

Pending Submissions

Submissions Filtered By My Review Decisions:

<u>Submission ID</u>	<u>Prime Contract Number</u>	<u>Sub Contract Number</u>	<u>Contract Task</u>	<u>Submission Event</u>	<u>Program Name</u>	<u>Report Date</u>	<u>Submitter Name</u>	<u>Submitted Date</u>	<u>Role</u>
3077	W58RGZ-05-C-0234	Unk-RAH-Rockwell	RDT&E	Test Firewall	ARH-70 (Armed Reconnaissance Helicopter)	10/15/2008	Jennifer Horner	10/16/2008	Lead Reviewer



Gov Reviewer; Search

Search by assigned contract

Submission Review Home

[Submissions](#) [Contracts](#) [Submission History](#)

Assigned Contracts

Prime Contract Number	Sub Contract Number	Contract Task	Program Name	PM	Contractor	Contractor Division	Role
W58RGZ-05-C-0234	Unk-RAH-Rockwell	RDT&E	ARH-70 (Armed Reconnaissance Helicopter)	SFAE-AV	Prime: Bell Helicopter Textron, Inc. Sub: Rockwell Collins	Prime: N/A Sub: Defense Electronics Systems	Lead Reviewer

Search prior submissions

Submission Review Home

[Submissions](#) [Contracts](#) [Submission History](#)

Submissions History

Search Submission History

Submission ID:

Contract Number:

Submission Status:

Program:

Report Date After:

Report Date Before:



Reviewing Submitted Cost Data

DCARC Home | Contact Us | EVM Administration | EVM Home | Upload Home | Reviewer Home | Analyst Home | Search Contracts

Quick Links
[Manage Contract Tasks](#) | [Program Dashboard](#) | [Program Status Report](#) | [Program A](#)

Contract Detail

Program: Death Star Program (Testing Purposes) **Reporting Contractor:** Rambo Systems **Contract Type:** CPAF **EDI Requi**

Contract Number: N0000-00-0002 **Sub Contract Number:** **Start Date:** **End Date:** **Reporting Stopped?:** No

Contract Summary | Reviewers & Submitters | Submission Events | **Received Submissions** | Contract Attachments

Contract Summary:

Contract Task	Value
USV Development 1	
USV Development 2	

DAU Gold Card Metrics by Contract Task (Single Dollars):

Variance	
Cost Variance	22,298,618
Schedule Variance	11,892,935,180
Variance at Complete	140,074,910,800
CV %	9.95
SV%	5.60

DoD Tripwires	Value
CPI	1.11
SPI	1.06

Key Metrics	Values
BCWP	224,125,556,240
BCWS	212,232,621,060
ACWP	201,826,946,040
BAC	1,130,081,915,060
EAC (reported)	990,007,004,260
EAC (cpi)	1,017,648,257,155
EAC (composite)	974,357,745,648

Metric Name	Values
% Schedule	18.78
% Complete	19.83
% Spent	19.83
TCPI eac	1.15

Legend

Task	EDI Applied on CDRL	Aug '11 CPR on Time	Sep '11 CPR Compliance	Oct '11 CFR	IMS	CPR on Time	CPR Compliance	CFSR	IMS	CPR on Time	CPR Compliance	CFSR	IMS	History File
USV Development 2														11/2/2011

Received Submissions:

Status: All

Submission ID	Submission Event	Contract Task	Submitter Name	Submitted Date	Report Date	Point of Contact	Status	Status Set By	Status Date
8725	New Parse CPR test	USV Development 2	Deborah Buck	11/7/2011	10/31/2011	Deborah Buck	Published	System	11/18/2011
8660	Eric Processing Test	USV Development 1	Eric Guerber	11/3/2011	3/31/2010	Eric Guerber	Published	System	11/15/2011
8647	hist	USV Development 2	Eric Guerber	11/2/2011	3/31/2010	Eric Guerber	Published	Eric Guerber	11/2/2011
8646	test eff date	USV Development 2	Eric Guerber	11/2/2011	10/31/2010	Eric Guerber	Published	Eric Guerber	11/2/2011
8644	testy2	USV Development 2	Eric Guerber	11/1/2011	3/31/2010	Eric Guerber	Published	Eric Guerber	11/1/2011
8643	testing cprtime	USV Development 2	Eric Guerber	11/1/2011	3/21/2010	Eric Guerber	Published	Eric Guerber	11/1/2011
8569	1/31/2009	USV Development 2	Eric Guerber	3/11/2011	1/31/2009	Eric Guerber	Published	System	3/22/2011
8568	2/28/2009	USV Development 2	Eric Guerber	3/11/2011	2/28/2009	Eric Guerber	Published	System	3/22/2011
8567	3/31/2009	USV Development 2	Eric Guerber	3/11/2011	3/31/2009	Eric Guerber	Published	System	3/22/2011
8566	4/30/2009	USV Development 2	Eric Guerber	3/11/2011	4/30/2009	Eric Guerber	Published	System	3/22/2011

1 2 3



EVM-CR Submission & Review Functions

[Contract](#)
[Submission](#)
[Files](#)
[Reviewers](#)

Submission Files

	File Name	File Type	CPR Level	File Comment
	201106_A016_CPR_RCDP.xml	CPR EDI/XML	Total	
	A016_MUE_CLIN2_201106_WSA.wsa	Other		wsa
	A016_CPR_Format_1-5_MUE_CLIN_002_201106.xls	CPR Other		Format 1-5 xls
	G&A % Allocation (Attachment 1) 201106.xls	CPR Format 1		
	MUE CPR Cover Page - June 2011.pdf	CPR Other		Signed cover page
	Reference CPR Data (Attachment 2) 201106.xls	CPR Other		Reference data

[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 100 mb.

[Browse...](#)
 File Comment:



**PARCA
EVM**

Reviewing Submission Details

[Back](#) | [Previous](#) | [Next](#)

Submission Detail

Program: Death Star Program (Testing Purposes)
Contract Number: N0000-00-0002
Submission Event / ID: hist / 8647
Contract Task: USV Development 2

[Contract](#) | [Submission](#) | **Files** | [Reviewers](#)

Submission Files

File Name	File Type	CPR Lev
UAV_Development_20100301.xml	History / Backup	Total

[View Submission CPRs](#)

Submission CPR

[Back](#)

Process File	FileID	File Name	Processing Status	Processing Error
+	33694	UAV_Development_20100301.xml	No File	

View	File Name	File Type	File Level	First Period	Latest Period	Number of Periods	Final CPR
+	UAV_Development_20100301.xml	History / Backup	Total	1/31/2009	3/31/2010	15	

File Details

File Name	File Type	File Level
UAV_Development_20100301.xml	History / Backup	Total

Current Period Information

Report from: 3/1/2010 To: 3/31/2010

Report Information

Program Name	Phase	Contract Number	Contract Type
UAV RD&TE	OTHER	1	OTHER

Contractor	CPR Precision	CPR ID	Final CPR
UAV Systems	0	38149	No <input type="button" value="Set as Final CPR"/>

CPR Header Dollars in

Quantity	Share Above	Share Below	Original NCC	NCC	CBB	TAB
				\$57,444,702	\$57,444,702	\$57,444,702

Best Case EAC	Worst Case EAC	Most Likely EAC	Target Price	Estimated Price	Contract Ceiling	Estimated Ceiling
\$49,948,260	\$70,616,506	\$57,411,793	\$54,572,467	\$57,444,702	\$57,444,702	\$57,444,702

Variiances

At Complete	Cumulative Schedule	Cumulative Cost	Total Schedule	Total Cost
\$140,074,911 *	\$11,892,935 *	\$22,298,610 *	\$11,892,935 *	\$22,298,610 *

Navigate File Periods

« < 1 of 15 > »

View	Report To	Final CPR
+	3/31/2010	
+	2/28/2010	
+	1/31/2010	
+	12/31/2009	
+	11/30/2009	
+	10/31/2009	
+	9/30/2009	
+	8/31/2009	
+	7/31/2009	
+	7/1/2009	
+	5/31/2009	
+	4/30/2009	



Reviewing a Submission

Contract | **Submission** | **Files** | **Reviewers**

Submission Files

File Name	File Type	File Comment
Jens Test.txt	CPR Other	<input type="text"/>

Reviewer Files

Contract | **Submission** | **Files** | **Reviewers**

Submission Reviewers

Reviewer	Organization	Role	Status	Status Date	Comment
Eric Guerber	SPSG - Tecolote Research Inc.	Lead Reviewer			<input type="text"/>
Jennifer Horner	Tecolote Research, Inc.	Lead Reviewer			<input type="text"/>
Mike Gardner	Tecolote Research	Lead Reviewer			<input type="text"/>
John McGahan	Tecolote SPSG	Lead Reviewer	<input type="radio"/> Approved <input type="radio"/> Conditionally Approved <input type="radio"/> Rejected <input checked="" type="radio"/> Pending		<input type="text"/>

Option to provide comments



**PARCA
EVM**

EVM-CR DATA ANALYSIS AND VIEWING



Program Search and Analysis



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When this document is printed,
it needs to be stamped top and
bottom with the appropriate
classification.

EVM CR Visual Display



Defense Cost and Resource Center - Enhancing DoD Cost Analysis

OSD CAFE

Welcome back jmcgahan!

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- [Admin](#)
- [Program Search](#)

Program Search

Group By

- Service
- Daes Group
- ACAT
- Commodity Group

AIR FORCE (35)

ARMY (47)

DOD (17)

MARINES (1)

NAVY (46)

Filter By

Service:

DAES Group:

ACAT:

Commodity Group:

Contractor:

Reporting Status:

Latest DAES:

- [Apply Changes](#)
- [Reset](#)
- [Go To Favorites](#)



PARCA EVM

Cost (Format 1) Header Information



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EVM CR Visual Display



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[Program Search](#)

Contract Tasks

Program: Death Star Program (Testing Purposes)
Contract Number: N0000-00-0001
Contract Task: Death Star Construction

Contract Number	Contract Task	Last Refreshed	Mark as Favorite
N0000-00-0001	Death Star Construction	4/25/2011	<input checked="" type="checkbox"/>
N0000-00-0002	USV Development 1	4/25/2011	<input type="checkbox"/>
N0000-00-0002	USV Development 2	4/25/2011	<input type="checkbox"/>

Contract Name	Contract Number	Contract Type	Program Name	Program Phase	Report From	Report To
Rambo Systems	N0000-00-N-0000	CPFF	DeathStar	RDTE	4/26/2010	5/23/2010

Contract Quantities	Share Above	Share Below	Cost of Auth. Unpr. Work	Target Profit Fee	Target Profit Fee %	Target Price	Estimated Price
RDTE:0, PROD:0	0	0	100,000	8,376,000	10	86,962,000	87,062,000

Contract Ceiling	Est. Ceiling Price	Best Case EAC	Worst Case EAC	Most Likely EAC	CBB	Neg Cost
	95,338,000	95,438,000	147,181,100	156,066,500	147,829,100	87,062,000

Contract Start Date	Work Start Date	Contract Definitization Date	Planned Completion Date	Contract Completion Date	Estimated Completion Date
1/1/2007		3/8/2007	9/24/2010	12/31/2008	8/18/2011

APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED: 14-S-0219, OCTOBER 30, 2013.



PARCA EVM

Details For IPMR Formats 1-4

Header	WBS Elements	OBS Elements	Summary Elements	Baseline	Staffing						
5/23/2010											
Format 1											
WBS Element Select Options											
Filter by reporting level: <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5											
Report Date	Element Name	Element ID	Reporting Level	Cum CPI	Cum SPI	Cumulative BCWS	Cumulative BCWP	Cumulative ACWP	Cumulative Sched Variance	Cumulative Cost Variance	BAC
5/23/2010	Weapon System	1	1	0.73	0.96	88,403,102	84,401,911	116,470,139	-4,001,191	-32,068,228	90,289,826
5/23/2010	All Up Ons (AUO) Space Vehicle	11	2	0.6							
5/23/2010	DeathStar Stuff	111	3	0.8							
5/23/2010	Spaceframe Structure	1110	4	0.8							

Header	WBS Elements	OBS Elements	Summary Elements	Baseline	Staffing				
5/23/2010									
Format 2									
WBS Element Select Options									
Filter by reporting level: <input checked="" type="checkbox"/> 1									
Report Date	Element Name	Element ID	Reporting Level	Cum CPI	Cum SPI	Cumulative BCWS	Cumulative BCWP	Cumulative ACWP	Cumulative Sched Variance
5/23/2010	Algorithms	IPGOR	1	0.62	1.00	3,167,284	3,167,284	5,147,433	0
5/23/2010	Integ Test & Analysis	ITA	1	0.67	0.64	10,713,786	6,838,878	10,279,284	-3,874,908
5/23/2010	Manufacturing	MFG	1	0.97	0.91	10,591,372	9,581,674	9,917,296	-1,009,698
5/23/2010	Mission Planning	MP	1	0.99	0.86	1,161,344	1,001,514	1,011,784	-159,830

Header	WBS Elements	OBS Elements	Summary Elements	Baseline	Staffing					
5/23/2010										
Format 3										
WBS Element Select Options										
Filter by reporting level: <input checked="" type="checkbox"/> 1										
Code	Name	Level	Current Value	Cumulative Value	+1	+2	+3	+4	+5	+6
DATALINK	Data Link NRE	1								
IPGOR	Algorithms	1	550	38,379	753	596	587	624	520	520
ITA	Integ Test & Analysis	1	3,454	62,751	5,206	3,919	2,782	3,094	2,612	2,565
MFG	Manufacturing	1	1,295	47,277	2,224	1,595	1,233	1,097	165	

Header	WBS Elements	OBS Elements	Summary Elements	Baseline	Staffing				
5/23/2010									
Format 4									
Performance Data									
Cumulative BCWS	Current BCWS	+1	+2	+3	+4	+5	+6	User Defined 1	User Defined 2
BOP	98,282,290	1,159,000	1,329,000	528,000	372,000	447,000	0	0	0
EOP	99,434,974		1,322,000	546,000	372,000	448,000	0	0	0



Data Validation Checks

Contract Task Summary View | Browse | **EVM Validity Checks** | Export | Chart | Settings

5/23/2010

EVM validity check summary

Validity check	Count
ACWPWayAboveOrBelowPlannedValue	61

Choices:

ACWP % greater than planned value threshold:

Change % threshold on greater than comparisons:

ReCheck **Default**

Report Date	Element ID	Level	Element Name	Validity Check
5/23/2010	1	1	Weapon System	Cumulative ACWP (116470139) is 37.99% above Cumulative BCWP (84401911).
5/23/2010	11	2	All Up Ons (AUO) Space Vehicle	Cumulative ACWP (84004730) is 46.40% above Cumulative BCWP (57381444).
5/23/2010	1410XA1CI	5	Interconnect Design NRE	Cumulative ACWP (1198...)
5/23/2010	112	3	Guidance Electronics Unit (ZZZ)	Cumulative ACWP (46213...)

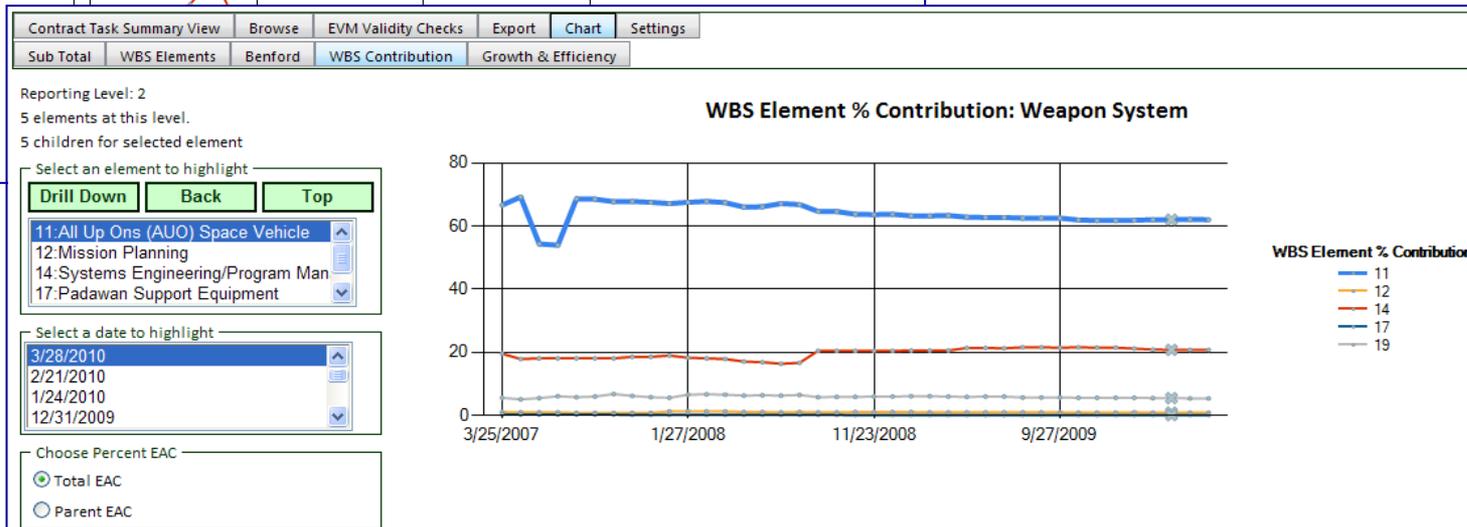
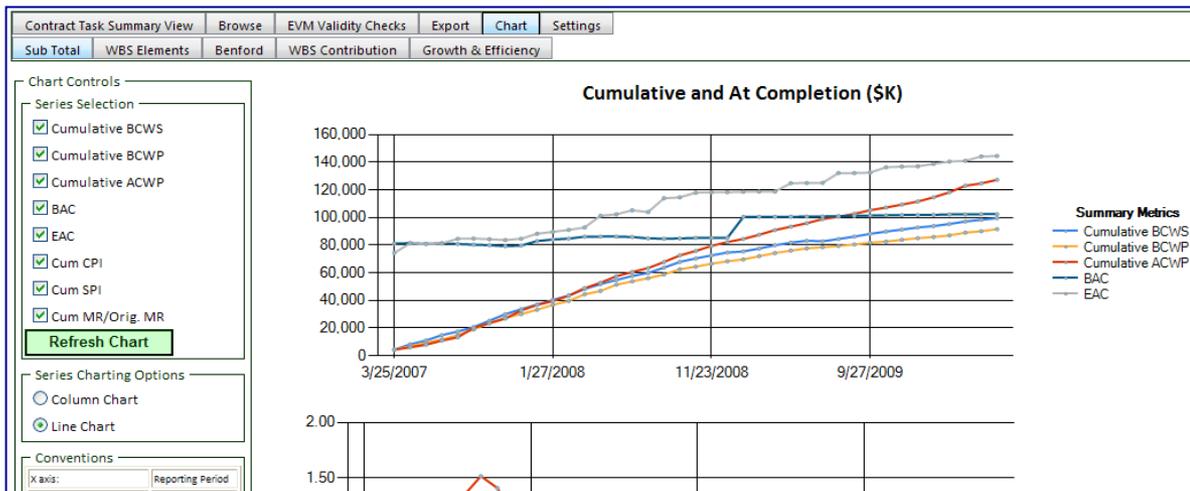
Cumulative ACWP (84004730) is 46.40% above Cumulative BCWP (57381444).

Report Date	Element Name	Element ID	Reporting Level	
5/23/2010	All Up Ons (AUO) Space Vehicle	11	2	
Cum CPI	Cum SPI	Cum ACWP	Cum BCWP	Cum BCWS
0.68	0.95	84,004,730	57,381,444	60,652,324
Cum SV	Cum CV	BAC	EAC	VAC
-3,270,880	-26,623,286	61,134,818	89,512,232	28,377,414



PARCA EVM

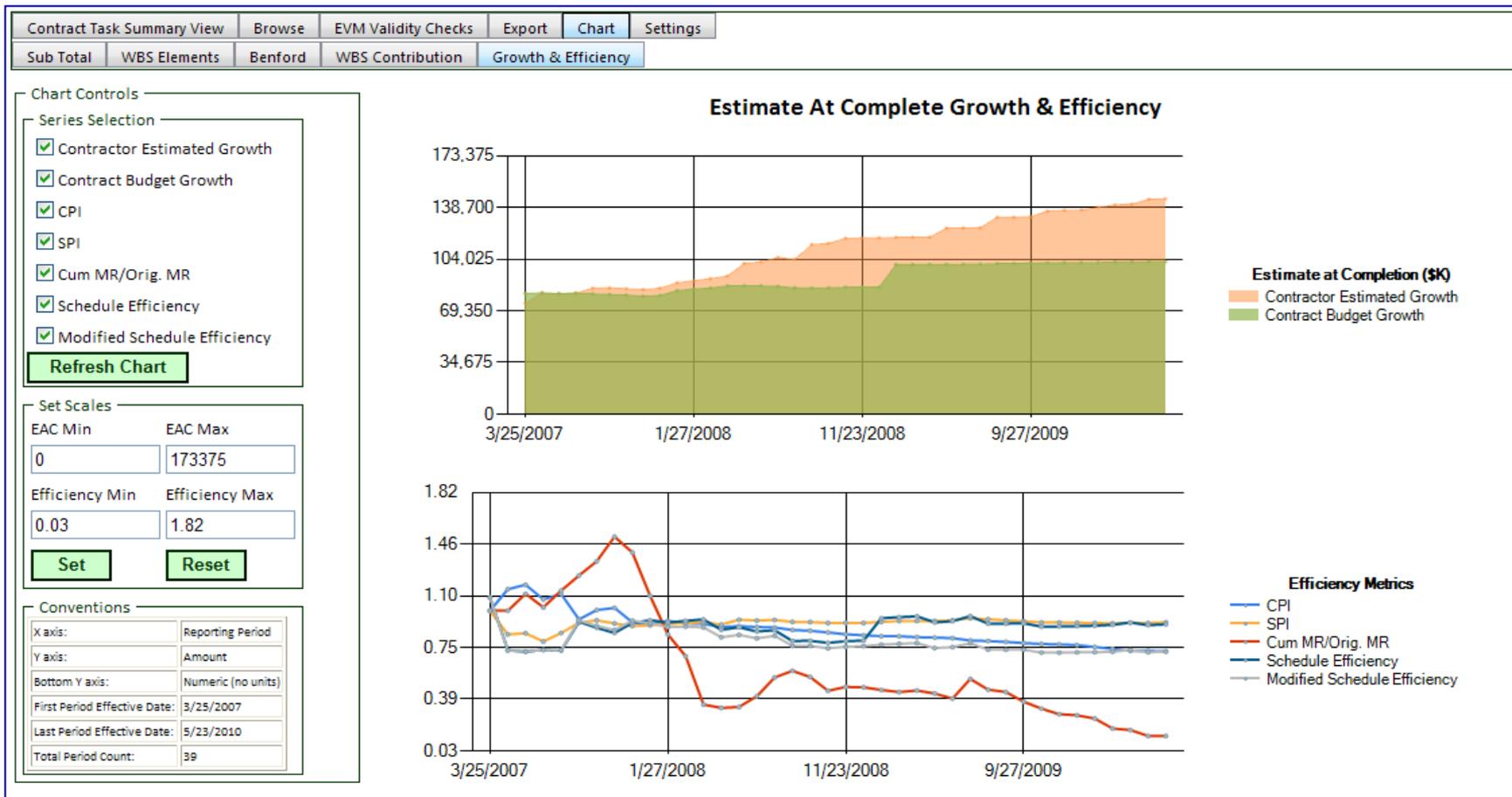
Charting and Analysis





PARCA EVM

EAC Analysis





**PARCA
EVM**

EVM-CR DATA DELIVERY STATUS



Reports & Metrics: Program Status

- ▶ PARCA provides the services a 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



Reports & Metrics: EVM-CR Dashboard

- Represents data delivery status across the EVM-CR





Reports & Metrics: Program Status

	May '2012				Jun '2012				Jul '2012				Aug '2012											
	EDL Applied on CDRL	IPMR Cost on Time	IPMR Cost Compliance	Formatted Cost on Time	Native Schedule on Time	CFSR on Time	IPMR Cost on Time	IPMR Cost Compliance	Formatted Cost on Time	Native Schedule on Time	CFSR on Time	IPMR Cost on Time	IPMR Cost Compliance	Formatted Cost on Time	Native Schedule on Time	CFSR on Time	IPMR Cost on Time	IPMR Cost Compliance	Formatted Cost on Time	Native Schedule on Time	CFSR on Time	Latest History File	Pct Complete	
																						5/27/2011	84	
																							11/21/2012	85
																							8/15/2012	100
																							9/30/2012	100
																							9/30/2012	100
																							5/27/2011	84
																								8
																								100
																							5/27/2011	50
																							5/31/2011	100
																							10/31/2012	73
																							1/29/2012	98
																							12/31/2012	65
																							12/31/2012	48
																							3/25/2011	96
																							5/31/2012	96
																							5/29/2011	82
																							5/20/2012	87

► Details by file data type of EVM-CR data submissions



Reports & Metrics: Program Status

▶ Legend for the PSR

On Time Scores *		Compliance Scores **		EDI Applied on CDRL	
	Submitted on Time		Processed		Correctly Applied
	Submitted Late		Missing		Unclear
	Rejected - not re-submitted		No Data		Not correctly Applied
	Submission in Submitting				No Data
	Expected this Period ***				
	Missing				
	Not Required this period				
	Not required on this task				
	No Data				

* Applies to all On-Time scores, IPMR Cost, Formatted Cost, IPMR Schedule, Native Schedule, CFSR, and History

** Applies to all EDI Compliance Scores, IPMR Cost, IPMR Schedule

*** Submission is Due this period, and has yet to be started by the submitter.



**PARCA
EVM**

PARCA Performance Assessments Training



**PARCA
EVM**

Agenda – PARCA PA

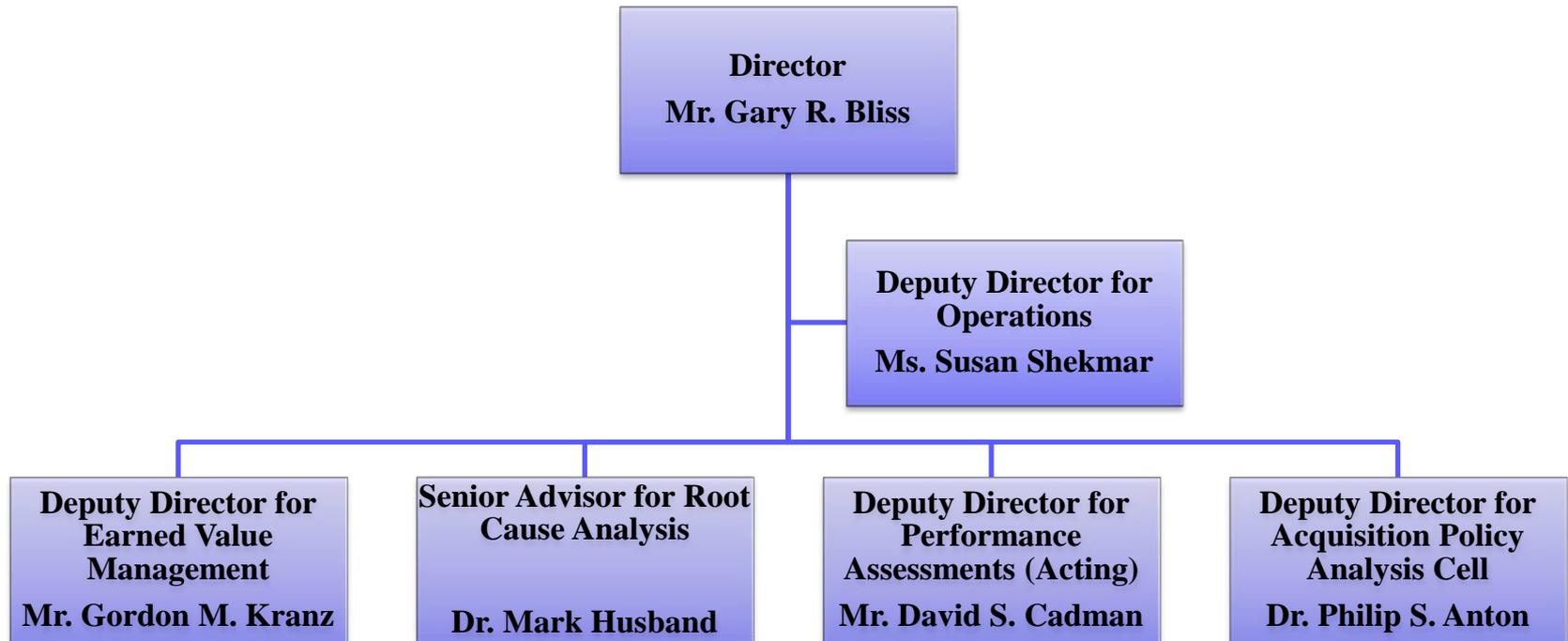
- ▶ PARCA Performance Assessments Division
- ▶ The USD(AT&L)
- ▶ DAES
- ▶ Analysis Examples



**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 PA – WSARA’s Assignments

1. Carry out performance assessments of MDAPs
2. Issue policies, procedures, and guidance on the conduct of performance assessments
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 a Nunn-McCurdy breach, are entering full rate production, or are requesting multi-year procurement

Improve visibility into the execution status of MDAPs



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) Use the Data

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

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



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
 - Program managers 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 leaders

- ▶ EVM analysis is prominent in every step



PARCA EVM

Nominal DAES Schedule

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	30 Group C PM Assessments Due	1	2	3	4	5
6	7	8	9	10	11 Group C OSD Assessments Due	12
13	14	15	16	17	18	19
20	21	22 Meeting #9 Group C Program Selection Meeting 11:00-12:00	23	24 Meeting #8 Group B Slides Due to OSD	25	26
27	28 Group B RAH Due to OUSD(AT&L)	29	30 DAES Group B Meeting #8 1:00-4:00pm	31 Group A PM Assessments Due		



DAES Step One: 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
	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



DAES Step One: Assessments

- ▶ Assessments document programs' status and history
 - Stored on a shared website
 - Read by all levels of staff and leadership

- ▶ Assessments are the backbone of program selection

- ▶ Currently there are over 90 Major Acquisition Programs in DoD



DAES Step One: Assessments

- ▶ EVM data is used in:
 - 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
 - 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



**PARCA
EVM**

PARCA Contract Performance Assessments

- ▶ PARCA examines the EVM data for every contract on every program being reviewed each month
 - Over 200 since February

- ▶ 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-CR Analysis Data Sources

- ▶ Defense Acquisition Management Information Retrieval System (DAMIR)

- ▶ Earned Value Management-Central Repository (EVM-CR)
 - PARCA Generated Excel Charts
 - Format 5's
 - Contract Schedules

- ▶ Program Assessment Reports (PARs)

- ▶ Other Organizations



PARCA EVM

Example Assessment

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.

USS Pentagon Milestones: Engineering & Manufactur.

Work Performed	Work Scheduled	Performance Metrics
Range of EACs \$880 - \$1,184	EAC CTR \$1,184	TCPI CTR 0.63
	EAC PM \$1,102	TCPI PM 0.79
	EAC CPI \$1,095	TCPIcpl 0.81
	15% VAC \$1,021	TCPI15% VAC 1.06
	EAC TAB \$933	TCPI TAB 1.68
	BAC \$888	TCPI BAC 2.41
Budget Remaining \$105 12%	Work Remaining \$252 28%	Schedule SPI cum 0.97 SPI 3mo 0.98 SV -\$19 BEI CPLI
% Spent \$783 88%	72% Complete 74% Scheduled	Cost CPI cum 0.81 CPI 3mo 0.73 CV -\$148 MR \$45

Cost Remaining: \$400
ACTUALS: \$783

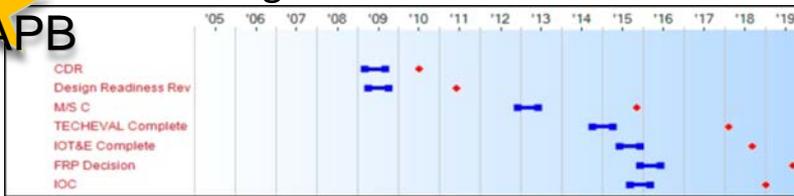
Contract Information
EMD-C-0001
 Start: 25-Aug-12
 Definition: 25-Aug-12
 Planned Completion: 15-Jan-17
 Estimated Completion: 02-Oct-16
 Original Negotiated Cost: \$438,840,000
 TAB: \$933,346,521



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.



DAES Step Two: Program Selection

- ▶ Once per month, senior staff get together to decide which programs will brief at the next DAES meeting
- ▶ Meeting chaired by Dr. Nancy Spruill, Director of Acquisition, Resources, and Analysis
- ▶ All aspects of programs are considered as criteria
- ▶ No data is more commonly cited than EVM



DAES Step Three: The Meeting

- ▶ Meeting starts with review of data submissions and data quality
 - This reflects Mr. Kendall's interest in data
- ▶ Mrs. McFarland may then review assessments by various groupings (e.g. contractor, service, commodity type)
- ▶ Three or four programs and their PEOs will brief to Mr. Kendall and the assembled leadership
 - Standard EVM charts are invariably part of these briefs
 - Unique EVM charts are sometimes added to illustrate particular points
 - PEO Emphasis on Better Buying Power
 - Mrs. McFarland is a particularly active listener



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

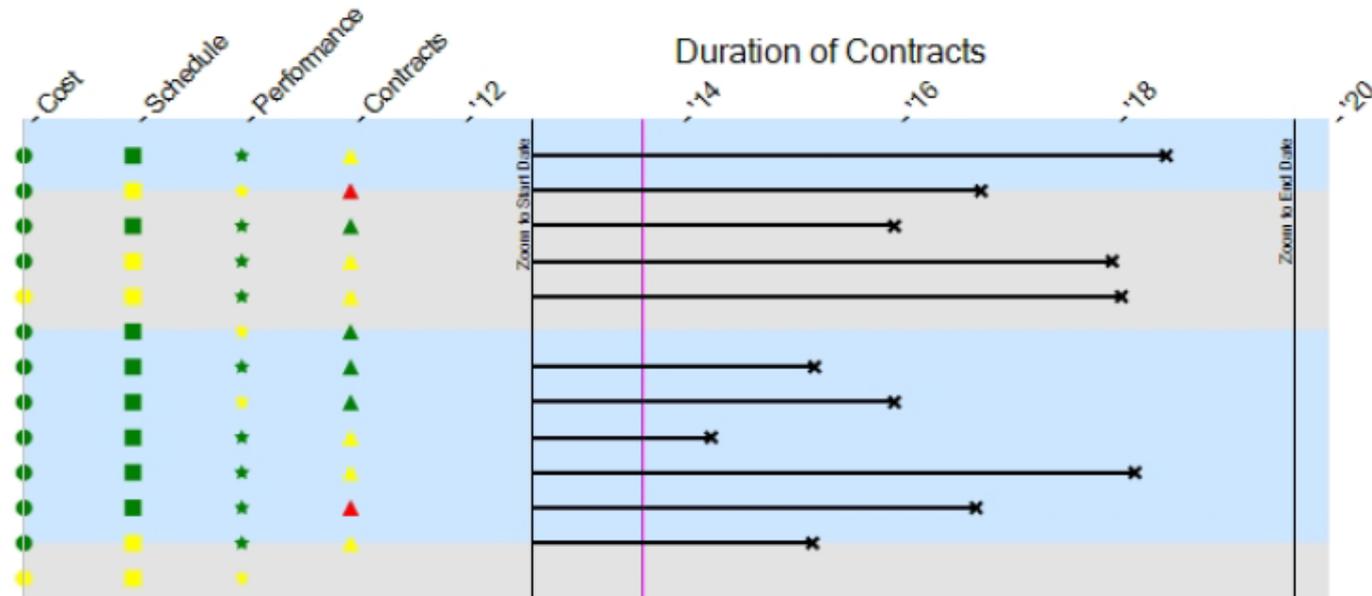


**PARCA
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Significant Acquisition Watchlist (SAW)

Options Selected

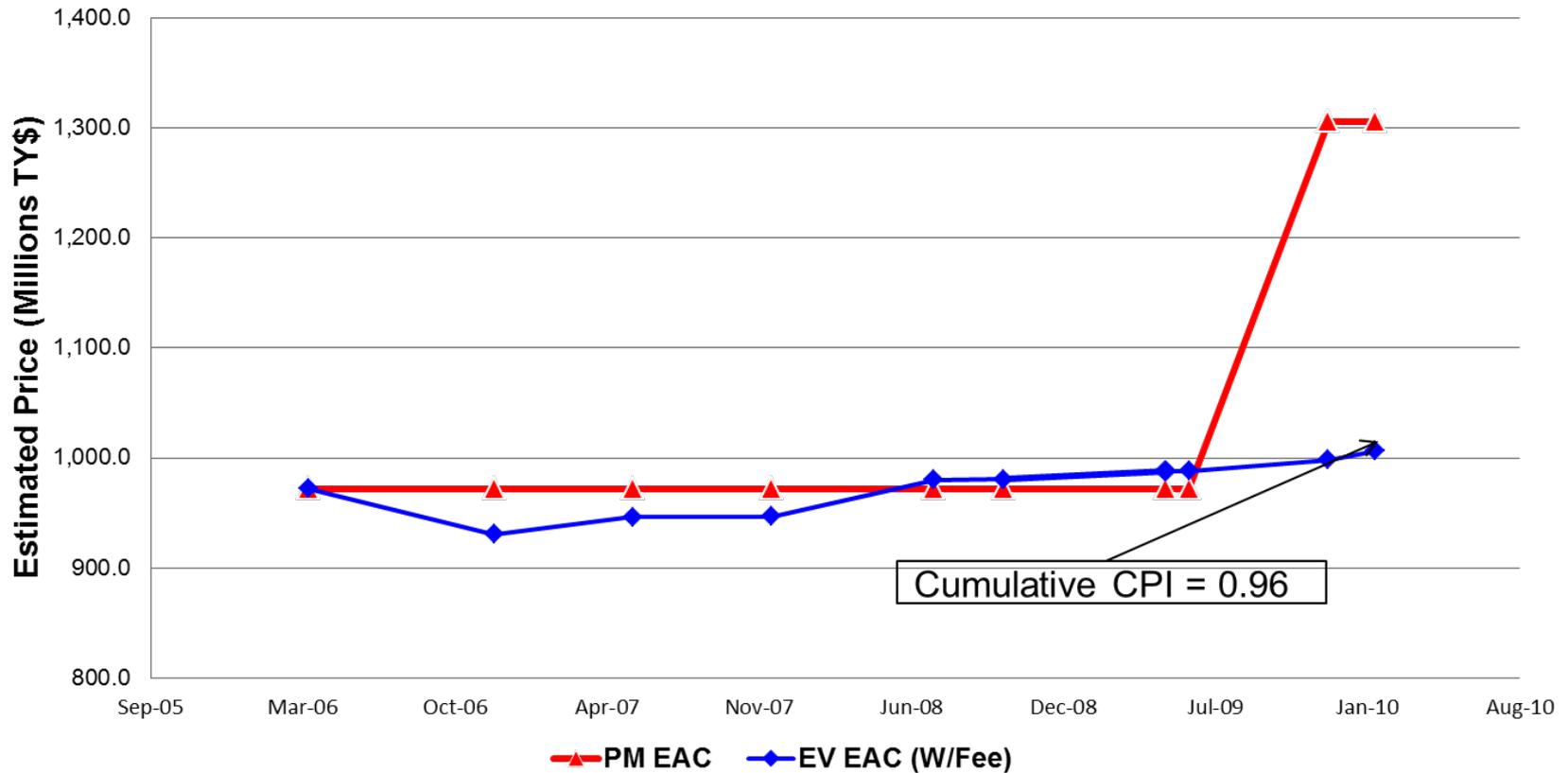
Portfolio: DAES G
 Source: DAES
 Quarter: Apr/May/
 Year: 2013
 Filter by Program: [ALL]
 Filter by Contractor: [ALL]
 Filter by DAES Group: A
 Filter by Commodity Type: [ALL]
 Filter by Service: [ALL]
 Filter by Program Type: [ALL]
 View Contracts: False
 Data Age Threshold (in Days): 30
 Data Submitted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





Make the Data Better by Using it and Asking Questions

A Failed EV System – No Connection Between CPI and Reality

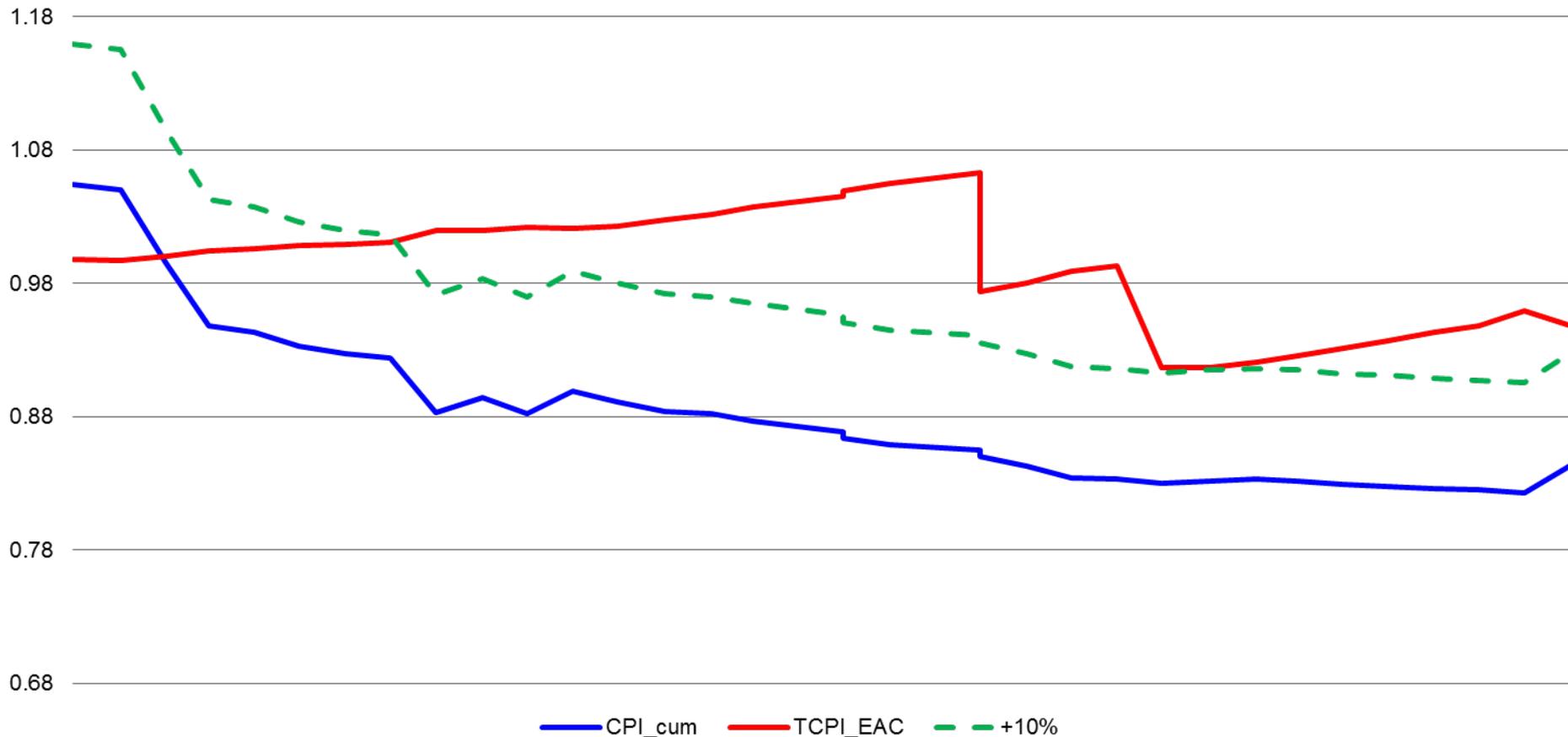


Cumulative CPI = 0.96



PARCA
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Program Not Adjusting to Poor Performance



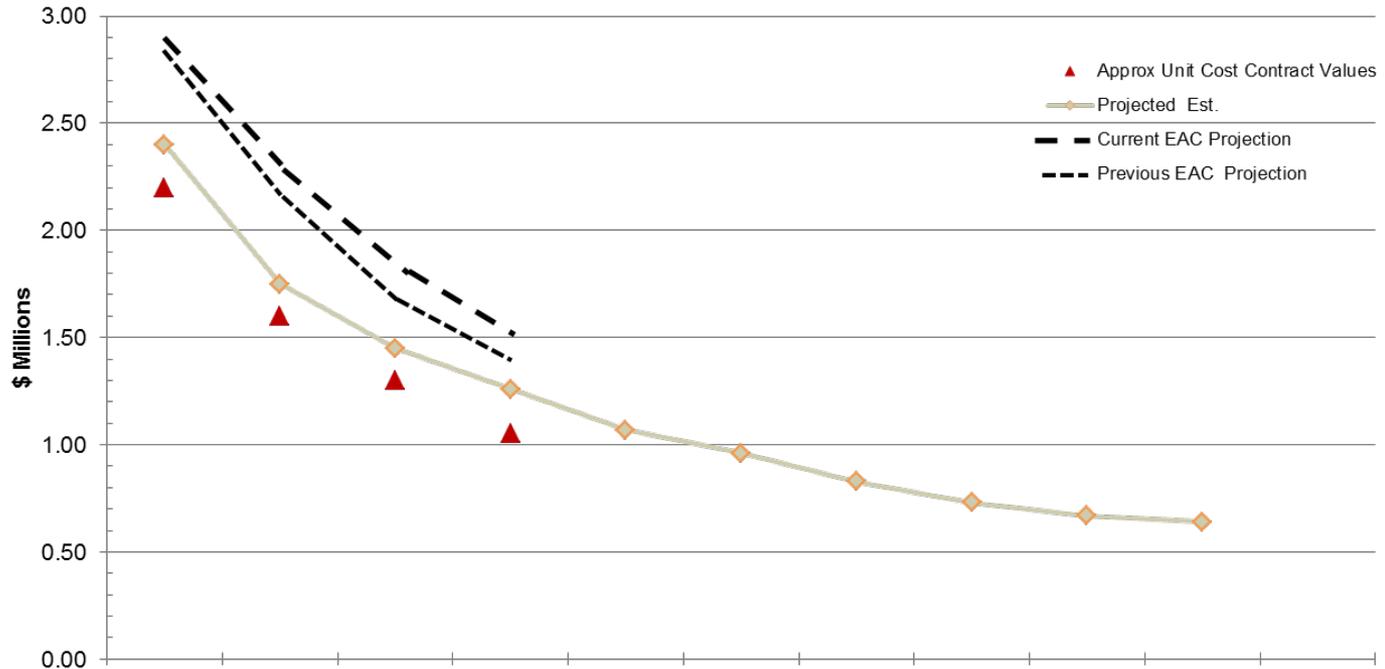
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Analysis Example - Using EV Data to Show Implications of LRIP Costs

Notional Data
Estimated Average URF Price by Lot



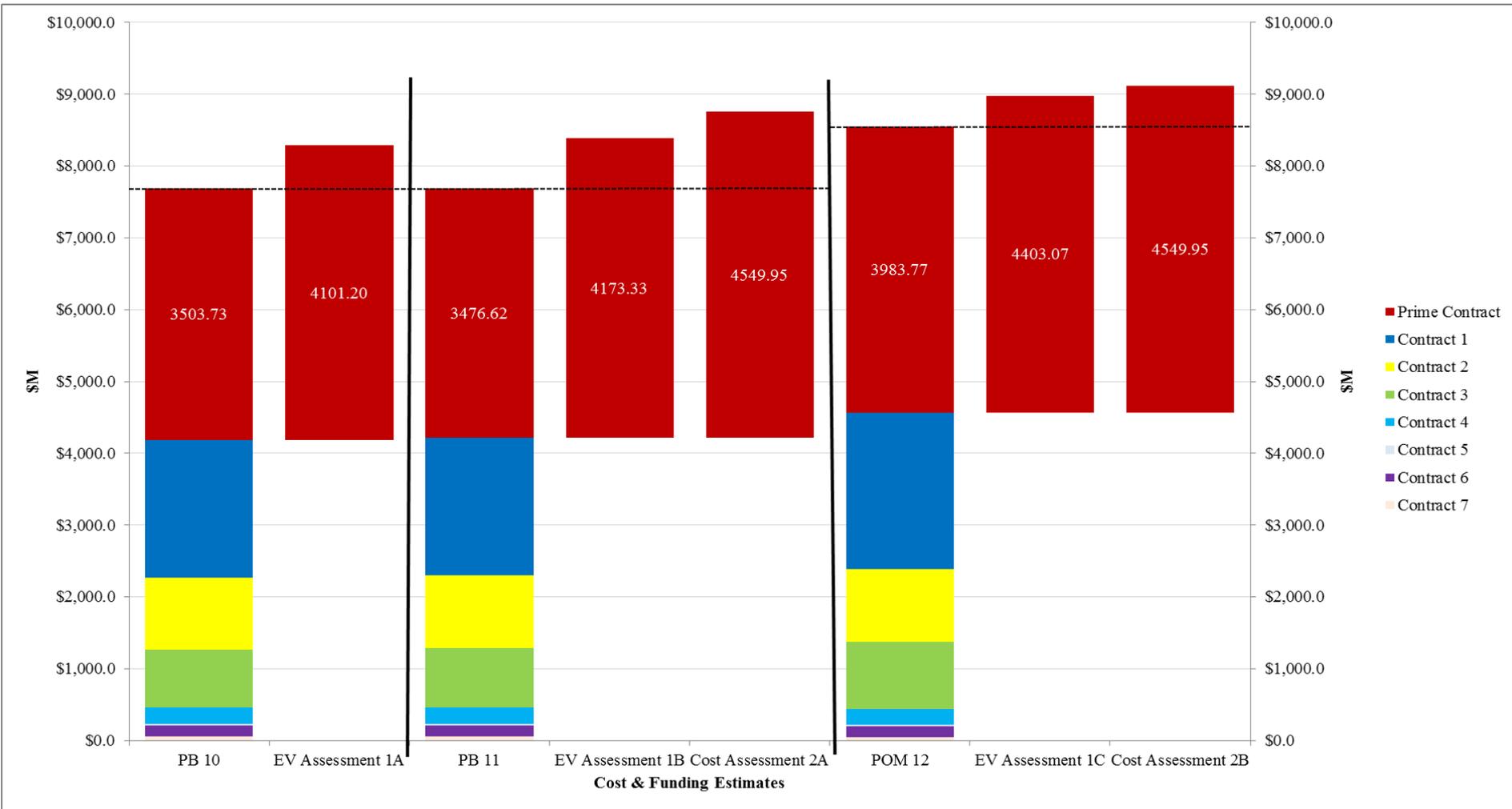
Contract Type	LRIP 1	LRIP 2	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5	LOT 6	LOT 7	LOT 8
Quantity	2	12	17	32	42	53	104	157	207	
Contract % Complete	100%	100%	60%	20%						

EAC projection based on
CUM Current Period CPF



PARCA EVM

Program Not Funded to Actual Performance



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PARCA EVM

PARCA PA 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

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7. DFARS
 - Notice of Earned Value Management System (Apr 2008): <http://www.acq.osd.mil/dpap/dars/dfars/html/current/252234.htm#252.234-7001>
 - Earned Value Management System (May 2011): <http://www.acq.osd.mil/dpap/dars/dfars/html/current/252234.htm#252.234-7002>
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8. IPMR: https://assist.dla.mil/quicksearch/basic_profile.cfm?ident_number=278901