

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



Orlando, Florida

November 18 – 19, 2014



Agenda: November 18



OSD CAPE

- 8:00 – 8:30 [Combined Introduction](#)
- 8:30 – 9:30 [Cost Assessment Data Enterprise \(CADE\) Project](#)
- DCARC: CSDRs**
- 9:30 – 9:45 [CSDR Overview](#)
- 9:45 – 10:00 [Contracting and Legal Foundations](#)
- 10:00 – 10:15 [CSDR Compliance](#)
- 10:15 – 11:15 [CSDR Planning](#)
- 11:15 – 12:00 [cPet Desktop - CSDR Planning Demonstration](#)
- 12:00 – 1:15 Lunch**
- 1:15 – 2:15 [CSDR Reporting & Validation](#)
- 2:15 – 3:00 [cPet Desktop - CCDR Validation Demonstration](#)
- 3:00 – 4:00 [Systems and Tools](#)
- 4:00 [Summary and Wrap Up](#)



- 8:00 – 8:30 OSD PARCA Themes
- 8:30 – 11:30 EVM Policy and Data Requirements
Integrated Program Management Report (IPMR)
- 11:30 – 1:00 Lunch*
- 1:00 – 3:00 EVM Central Repository (EVM-CR)
- Submission Process
 - Data Analysis and Viewing
 - Data Quality
 - Data Delivery Status
- 3:00 – 4:00 PARCA Performance Assessments
- 4:00 – 4:30 Question and Answer



**PARCA
EVM**



PARCA & DCARC TRAINING INTRODUCTION



Training Objectives

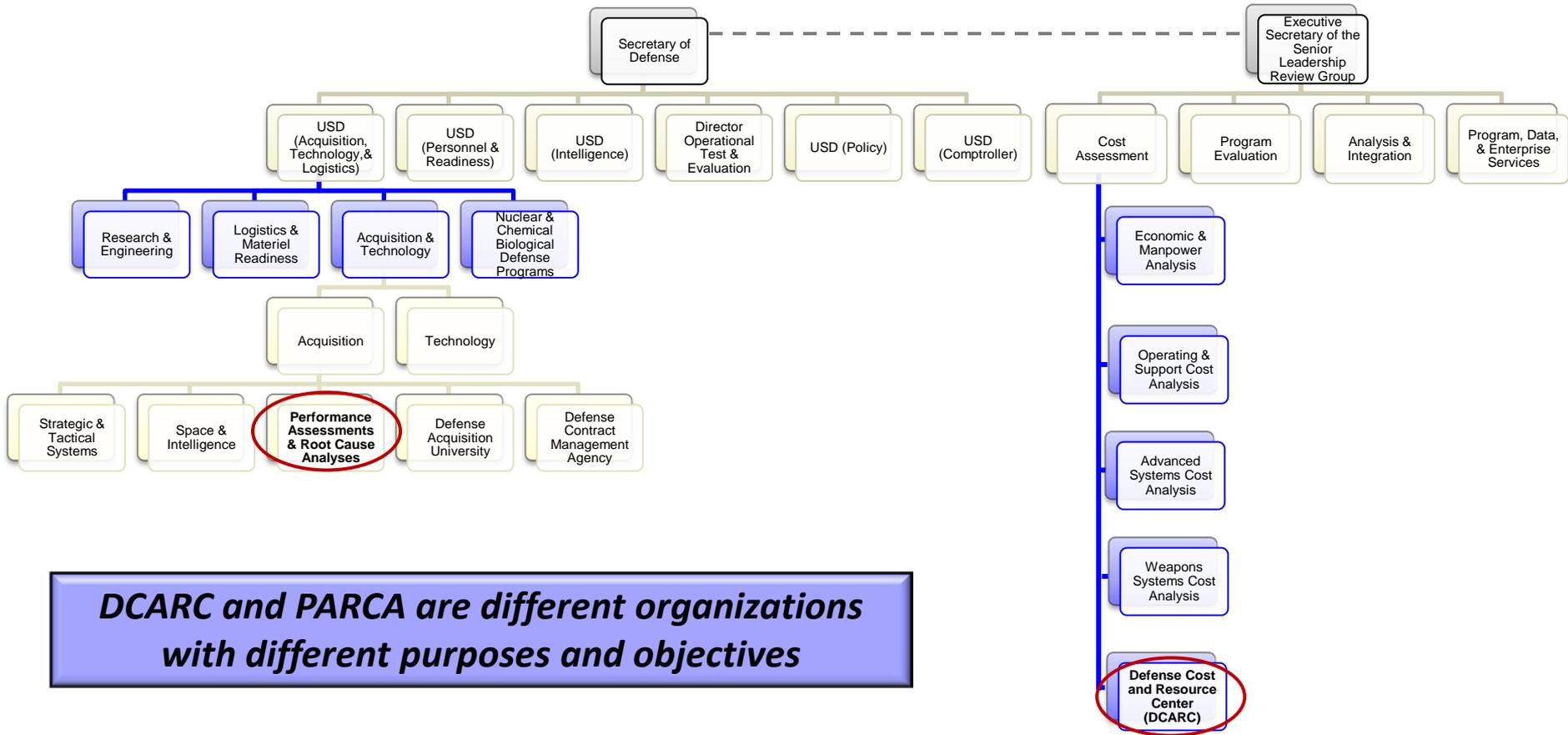


- ▶ Understand the roles of DCARC and PARCA and their goals
- ▶ Become familiar with the applicability of CSDR and EVM Reporting Requirements
- ▶ Become familiar with the formats of the CSDR and IPMR Reports



**PARCA
EVM**

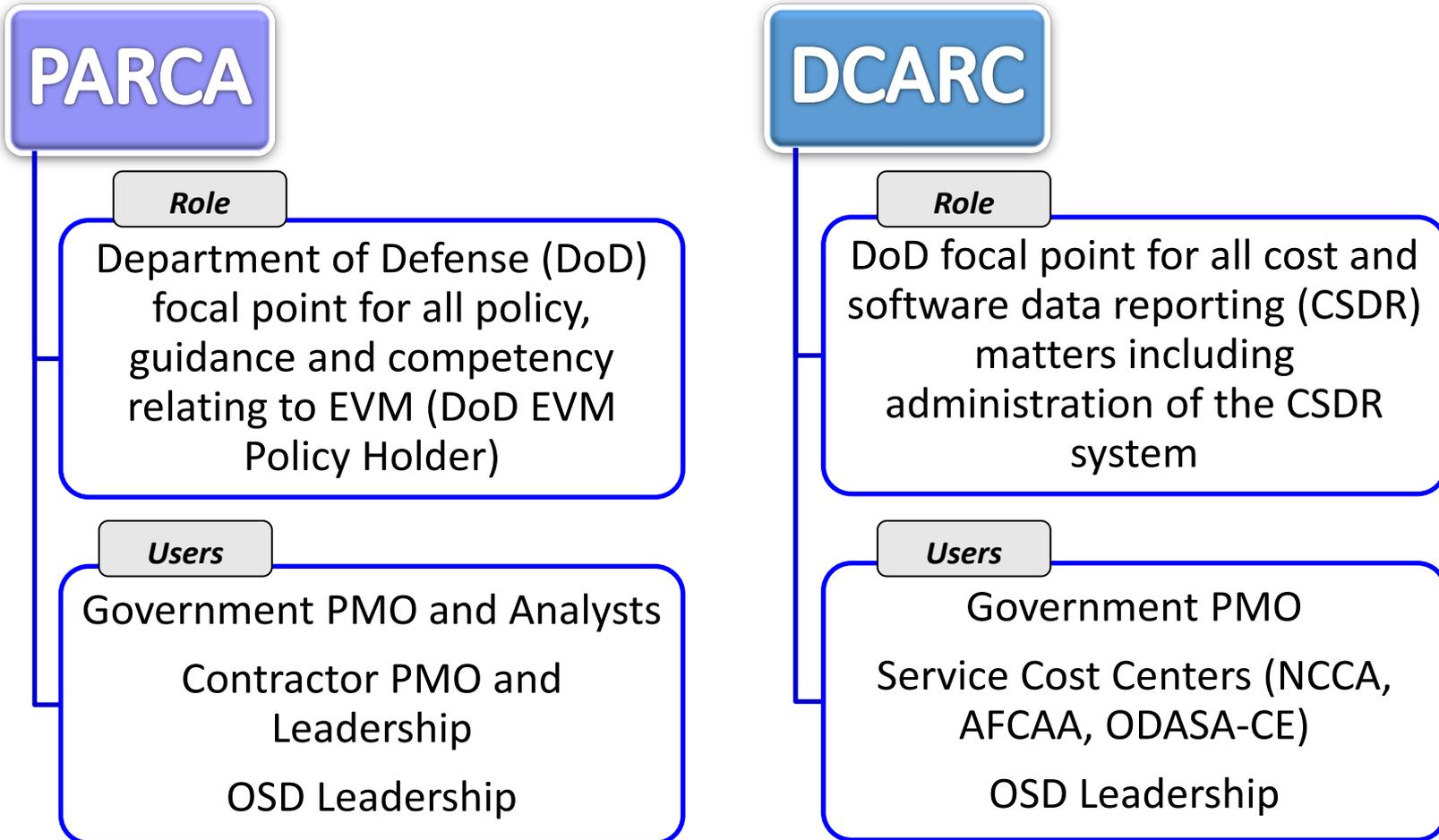
Organization Chart



DCARC and PARCA are different organizations with different purposes and objectives



Roles & Users





PARCA

Reporting Purpose

Measure cost and schedule performance on programs to provide situational awareness and to facilitate decision making

Reporting Structure

Product-oriented WBS where it makes sense, or other structure that aligns with performance and management of the work

DCARC

Reporting Purpose

Provide actual cost data to develop independent, substantiated cost estimates which enable realistic budgets, executable contracts, and program stability

Reporting Structure

Product-oriented WBS in accordance with MIL-STD-881C



PARCA EVM

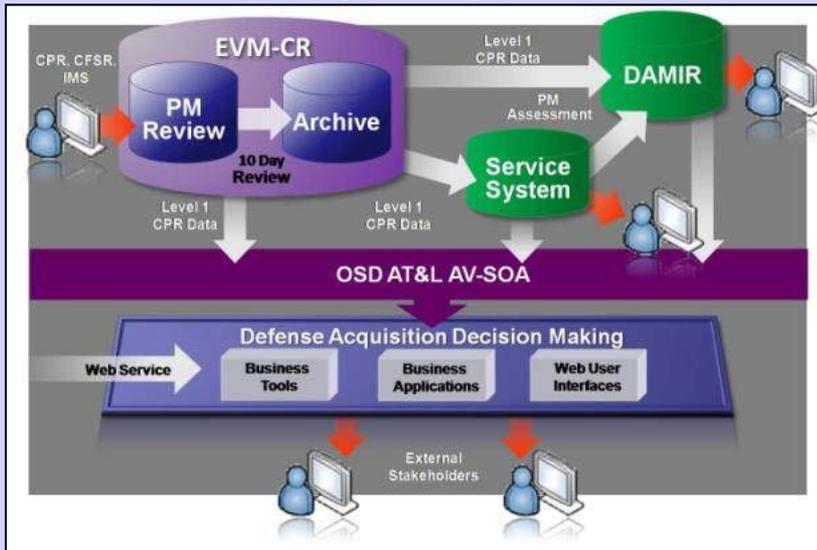
Reporting & Repositories



PARCA

- ❖ Collect data to support program management

Earned Value Management Central Repository (EVM-CR)

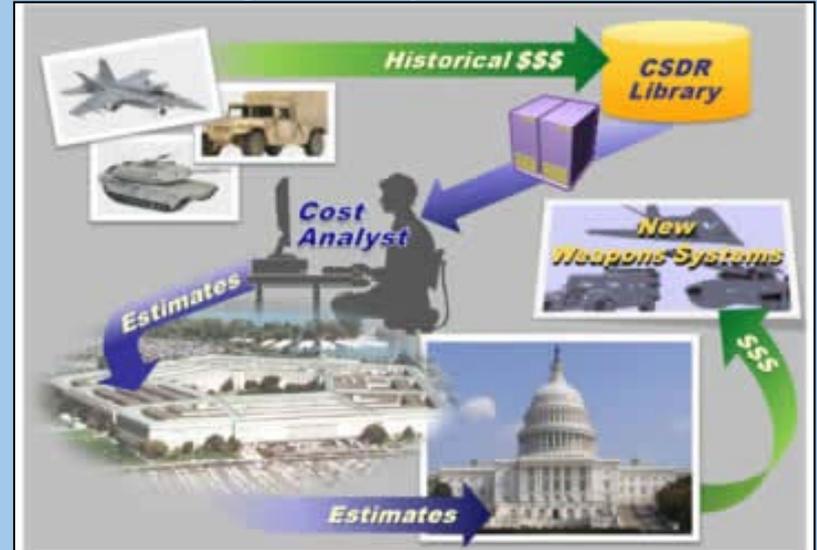


- DI-MGMT-81861 Integrated Program Management Report (IPMR)
- DI-MGMT-81468 Contract Funds Status Report (CFSR)

DCARC

- ❖ Collect data to support cost estimating

Defense Automated Cost Information Management System (DACIMS)



- DI-MGMT-81334D, Contract Work Breakdown Structure (CWBS)
- DI-FNCL-81565C, Cost Data Summary Report (DD Form 1921)
- DI-FNCL-81566C, Functional Cost Hour Report (DD Form 1921-1)
- DI-FNCL-81567C, Progress Curve Report (DD Form 1921-2)
- DI-FNCL-81765B, Contractor Business Data Report (DD Form 1921-3)
- DI-MGMT-81739B, Initial Developer Report
- DI-MGMT-81740A, Final Developer Report



CSDR/EVM Plan Vision



▶ *Guiding Principles*

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

▶ *Objectives*

- DCARC/PARCA implementation of a CSDR/EVM Co-Plan (DD 2794), and EV Submission Table, to capture both CSDR and EVM requirements
 - Single reporting structure identifying CSDR and/or EVM elements, as well as required reports and formats prior to RFP release
- Creation of a standard plan by commodity group, defined by MIL-STD-881C
 - Consistency between CSDR and IPMR Format I reporting levels
- Definition of standard business process
 - Collaboration during WBS development
 - DCARC/PARCA Director approval of plan documents
 - Across acquisition distribution channels



CSDR/EVM Co-Plan Process

CSDR/EVM Co-Plan Process:



- 2794, Part A – Metadata
- 2794, Part B – WBS/CRS
- 2794, Part C – CSDR Submission Table
- EV Submission Table

- 2794, Part A – Metadata
- 2794, Part B – WBS/CRS
- 2794, Part C – CSDR Submission Table
- 2794, Appendix A - EV CDRLs

RFP Release

Contract Award

Compliance Tracking

Note: EV Submission Table not included as part of Approved CSDR/EVM Co-Plan in RFP, but Appendix A – EVM CDRLs (DD Form 1423)

- PO Action
- DCARC/PARCA Action
- Contractor Action



CSDR/EVM FAQs

- ▶ *What are the advantages of the co-plan?*
 - The co-plan provides a single source document that depicts cost and program management reporting levels and structure
 - Development of the co-plan facilitates discussions among stakeholders
- ▶ *When will the co-plan be approved?*
 - The co-plan will be approved with the next CSDR DID updates, scheduled for June 2015
- ▶ *If the WBS varies for EVM and CSDRs, where will this be identified?*
 - If different levels of detail are necessitated for cost and EVM reporting, these levels will be identified on the co-plan document
 - Additional EVM reporting details will be described on the EVM CDRLs (DD Form 1423)

Cost Assessment Data Enterprise (CADE) Project

CADE Vision for Joint CSDR/EVMS Training

November 2014

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Last Updated: October 15, 2014

CAPE
COST ASSESSMENT & PROGRAM EVALUATION

Agenda

- Objectives
- Comprehensiveness & Vision
- History – Analysis Evolution
- Today's Process
- Vision – Total Analyst Access
- Inc 2.0 (Today – released beginning of Oct 2014) & Incs 2.5-4
- Community Integration
- Government-Industry Cooperation Opportunities
- Current Collaboration & Government CSDR Evolution
- Long Term Plan & Short Term Focus
- Opening CADE to the Cost Community

CAPE

COST ASSESSMENT & PROGRAM EVALUATION



CADE Objectives/KPPs

OSD CAPE

Improve Analyst Productivity

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

Effectiveness

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

Data Quality and Reporting Compliance Improvement

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

Comprehensiveness

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

Source Data Transparency



Comprehensiveness & Our Vision

OSD CAPE

Comprehensive Data Availability:

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

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

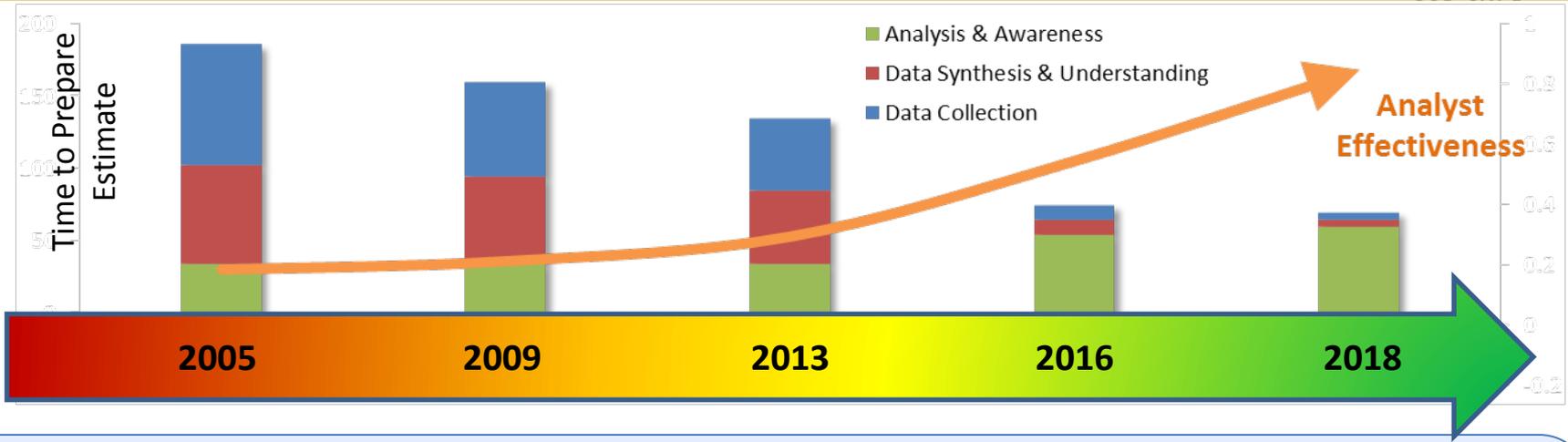
Our Vision for CADE and CSDRs (1921s):

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

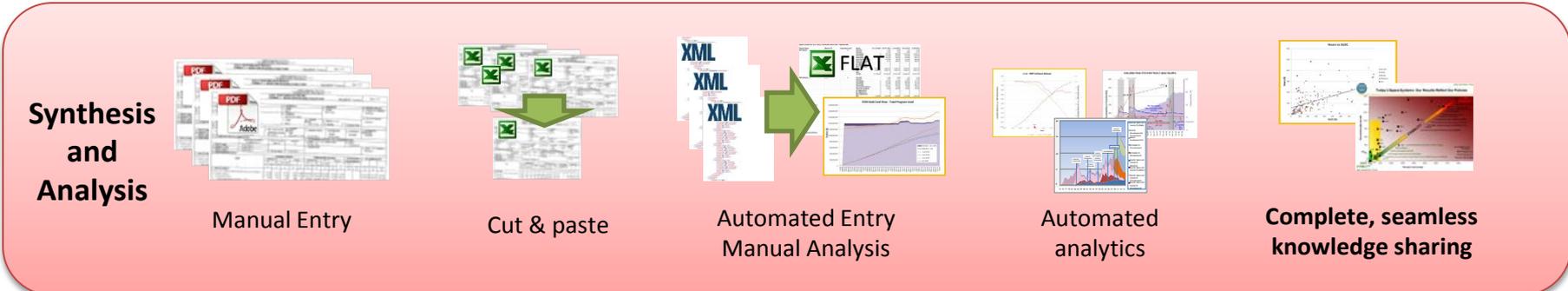


Analysis Evolution

OSD CAPE



- Data Sources**
- Program Office
 - DACIMS
 - SARs
 - DAES
 - Contractors
 - Service O&S
 - Data Libraries
 - Colleagues Network
- **EVM-CR**
 - DACIMS
 - **DAMIR**
 - Contractors
 - Service O&S
 - Data Libraries
- **EVM Visual Display**
 - **DCARC Bulk Download**
 - DAMIR
 - Contractors
 - Service O&S
 - Data Libraries
- **CADE Total Access**
 - Service O&S
 - Data Libraries
- **CADE Total Access 2.0**

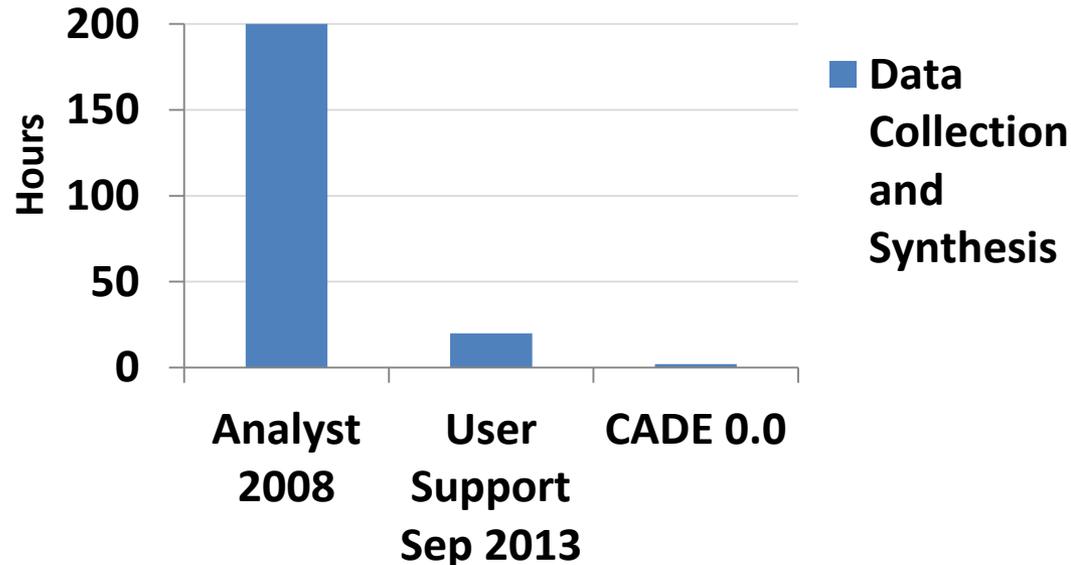




Today's Process

OSD CAPE

Time for CPR Data Collection and Syntheses



Analyst in 2008:

200 hours, typing in by hand selected data over time

User Support Sep 2013:

20 hours to bulk download and format ~40 contracts

CADE 0.0:

Retrieve data from 40 contracts over time within 2hrs

CADE Vision of the Future: Total Analyst Access

OSD CAPE

Seamless integration
of authoritative data sources



Knowledge Portal

DCARC
CAPE

CADE Total Access

VD Test User [Log Out](#)

DCARC HOME
BROWSE PROGRAMS
DASHBOARD
TOOLS
SOURCE DATA
CONTACT US

Build Portfolio

Choose Portfolio: RDT&E Contracts

or

Program: OFF

Task: OFF

Level: OFF

Metric: EAC % Complete

Toggle

- Contract #1
- Contract #2
- Contract #3
- Contract #4
- Contract #5
- Contract #6
- Contract #7
- Contract #8
- Contract #9
- Contract #10

Portfolio Analysis

Select View: Save View:

Collapse Widgets >

USS Voyager

Program View in DAMIR

RDT&E: \$14,268M

Procurement: \$7,628M

Units: 2

Milestones

Program Milestones from DAMIR

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

Key Program Events

Key Events list maintained by Community

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

CADE Community Knowledge

4 Analysts have been assigned to this program.

- BDopkeen shared a [PowerPoint](#).
- KHazel posted a [link](#).
- BDopkeen posted a [note](#).
- ELofgren shared an [Excel Document](#).

CCRL Search

[Open CCRL website in a new tab](#)

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

External Links

Opens website in new tab

- [Defense Cost and Resource Center \(DCARC\)](#)
- [Data Warehouse](#)
- [DAMIR \(AT&L\)](#)

UNCLASSIFIED



CADE Increment 0

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

DCARC HOME | SELECT PROGRAMS | DASHBOARD | RETRIEVE FILES | TOOLS | REFRESH

VD Test User | Log Out

My Programs

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

Contract Task # Periods Last Available Last Refreshed

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

Performance Over Time | Element Performance Comparison

Primary Y Axis Metric: Cumulative Scale: \$

Secondary Y Axis Metric: Off

Export Data | Zoom In | Standard Views

Cumulative Summary: SubTotal (PMB) (\$)

Month 2010

— Cumulative BAC

SV CV SPI CPI TCPI % Complete MR UB

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

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

EVM CPR Views

Custom Views

Standard Views

EVM CPR Data
CCDR Contract Data
Program Milestones
Download O & S Tools

Search for and add programs to list of favorite programs

Navigate to other programs via "My Programs" tool bar

Export data being viewed

Navigate to other data sources for the selected program

CPR Visual Analysis via Custom and Standard Views within Dashboard

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

Demonstration

Increment 0.5 – New Functionality

Visual Display Administration

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

Administrator Functions

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

Administrative function for updating tools, resources, and external links

Quick program selector and favorites access

USS Voyager	Program Level	EDM	CSOR	O&S
1	101st Airborne Division	✓	✓	✓
2	101st Airborne Division	✓	✓	✓
3	101st Airborne Division	✓	✓	✓
4	101st Airborne Division	✓	✓	✓
5	101st Airborne Division	✓	✓	✓
6	101st Airborne Division	✓	✓	✓
7	101st Airborne Division	✓	✓	✓
8	101st Airborne Division	✓	✓	✓
9	101st Airborne Division	✓	✓	✓
10	101st Airborne Division	✓	✓	✓
11	101st Airborne Division	✓	✓	✓
12	101st Airborne Division	✓	✓	✓
13	101st Airborne Division	✓	✓	✓
14	101st Airborne Division	✓	✓	✓
15	101st Airborne Division	✓	✓	✓
16	101st Airborne Division	✓	✓	✓
17	101st Airborne Division	✓	✓	✓
18	101st Airborne Division	✓	✓	✓
19	101st Airborne Division	✓	✓	✓
20	101st Airborne Division	✓	✓	✓

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

Improved navigation between View types

Milestone Widget: Add Milestones to Visual Displays

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

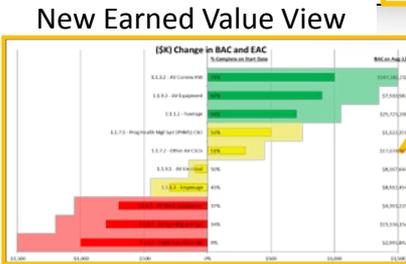
External Links Widget

Budget Shifting

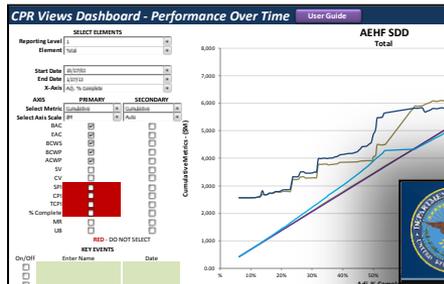
Improved View navigation through panel selector

Collapsible widget area

Enhanced CADE Total Access Design



Increment 1.0 – New Functionality



Saved View [X]

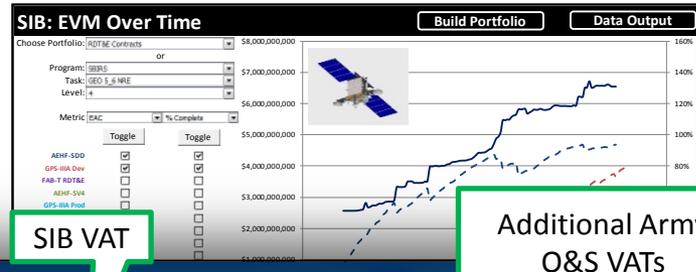
Saving a View stores the current options selected on the graph and stores them. Once saved may be used for any contract task in the future.

Give your Saved View a name:

Check to share View in CADE Community Knowledge

SAVE

Save View templates



SIB VAT

Additional Army O&S VATs (Tactical, Electronics)

Ability to export data into corresponding CPR VAT format

Comment on your own post; remove flags or remove thread

Knowledge Portal DCARC CAPE

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

Death Star Prog... Program-Level **EV** CSDR **O & S**

Contract Number: FA8625-11-C-6600 Contract Task: KC-46 Directorate # Periods: 32 Last Available: 12/19/2013 Last Refreshed: 1/24/2014

USS Voyager

Export Data Zoom In

Milestones: Milestone A Jan. 2004 Sept. 2004 Mar. 2004

Key Program Events

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

CADE Community Knowledge

4 Analysts have been assigned to this program.

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

CCRL Search

7 references pertain to USS Voyager.

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

External Links

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

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

Post program info, links, notes, and documents

Search CCRL references

Cost Schedule Risk and Uncertainty Handbook

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



Add New Knowledge

Post a Note:

Add Text:

Post information pertaining to your program.

Post

Upload a File:

Successfully uploaded "Indep. EAC Work..."

Enter File Type:

Excel Document

Add File Description:

Workbook containing calculations for the most recent independent...

Post

Flag posts to alter owner to potential information issues

A Post Has Been Flagged! [X]

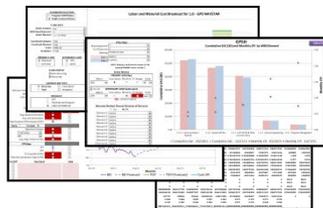
One or more of your posts has been flagged.

Please review your posting(s):

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

Increment 1.5 Vision

CPR, IMS, CCDR and SRDR VATs



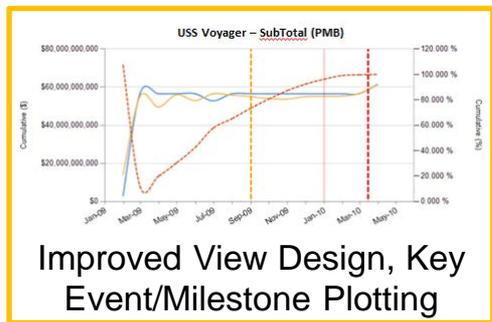
EVM Contract Efforts						
Task Name	Final Report	Last Report	Final Report EAC (BPD)	Electronic CPR	Final/PDF CPR	CPR
Task 1	4/19/2010	3/16/2011		X	X	X
Task 2	5/13/2010	5/13/2010		X	X	X
Task 3				X	X	X

CSDR Contract Plans						
Plan Name	Final Submission	Last Submission	# of Submission Events	1921	1921-2	1921-2
1910-C1-54321	3/26/2010	3/26/2010	1	✓	✓	X

Data Availability



Enhanced Program Search



Improved View Design, Key Event/Milestone Plotting

CADE Public Website



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

Contractor Compliance Report Card

WBS ELEMENT CODE	WBS ELEMENT NAME	MEASURED UNITS	CONTRACTOR TOTAL (in thousands of US Dollars)	TOTAL #
1.0	System	0.0	\$17,500.0	\$46,700.0
1.1	SESTM and Other Common Elements	0.0	\$75,000.0	\$5,700.0
1.2	System Vehicle/Platform	0.0	\$176,920.0	\$229,700.0
1.1.1	SESTM and Other Common Elements	0.0	\$21,000.0	\$5,700.0
1.2.1	Structure	0.0	\$22,000.0	\$24,500.0
1.2.2	Program, Assembly, Test and Checkout	0.0	\$10,000.0	\$9,000.0
1.2.2.1	Program, Assembly, Test and Checkout Subsystem	0.0	\$10,000.0	\$9,000.0
1.2.3	Communication (Payload)	0.0	\$22,000.0	\$19,000.0
1.2.3.1	Communication	0.0	\$16,500.0	\$15,000.0
1.2.3.1.1	AMP Antenna Subsystem	0.0	\$0.0	\$9,800.0
1.2.3.1.2	AMP Antenna Subsystem	0.0	\$1,500.0	\$1,500.0
1.2.3.2	Payload	0.0	\$1,000.0	\$1,300.0
1.2.3.2.1	Engine Subsystem	0.0	\$2,000.0	\$4,000.0
1.2.3.2.2	KAUSFP Subsystem	0.0	\$4,000.0	\$1,000.0
1.2.4	Power Adapter	0.0	\$1,000.0	\$1,500.0
1.2.5	Space Vehicle Storage	0.0	\$4,000.0	\$4,500.0
1.2.6	Launch System Integration	0.0	\$9,000.0	\$12,000.0
1.2.7	Launch Operations/Person Support	0.0	\$10,000.0	\$10,000.0
1.3	Ground/In-Assemble	0.0	\$10,000.0	\$1,000.0
1.3.1	SESTM and Other Common Elements	0.0	\$2,000.0	\$2,000.0
1.3.2	Ground Support Subsystem	0.0	\$10,000.0	\$1,000.0
1.3.3	Command and Control Subsystem	0.0	\$4,000.0	\$1,000.0
1.3.4	Mission Management Subsystem	0.0	\$10,000.0	\$1,000.0
1.3.5	Data Arch	0.0	\$0.0	\$19,000.0
1.3.6	Mission C1	0.0	\$0.0	\$15,000.0
1.3.7	Mission C2	0.0	\$0.0	\$18,000.0
1.3.8	Mission C3	0.0	\$0.0	\$12,000.0
1.3.9	Collection	0.0	\$0.0	\$15,000.0
1.3.10	Swath C	0.0	\$0.0	\$22,000.0
1.4	Launch V	10	\$20,000.0	\$1,000.0
1.5	User Equipment Test	0.0	\$1,000.0	\$1,000.0
1.6	Sample Element	0.0	\$1,000.0	\$1,000.0

Raw CCDR Access

- CADE** Public site, About CADE
- DCARC** DACIMS, Policy, Info
- EVM** EVM-CR, Policy, Info

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

CPR Visual Display Program-level Data Tables

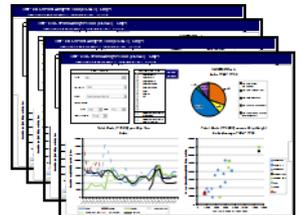
Cost and Funding						
Cost Summary - Total Program						
Total Acquisition Cost and Quantity - Total Program						
Appropriation	BY2002 \$M		TY \$M		Current Estimate	
	SAR Baseline Prod Est	Current APR Production Objective/Threshold	SAR Baseline Prod Est	Current APR Production Objective	Current Estimate	Current Estimate
RDTE	5382.8	5485.3	5542.2	7117.8	7446.3	7446.3
Procurement	3233.0	5311.1	4744.0	4031.7	6565.5	5944.2
Flyaway	2656.0	-	4744.0	3414.4	-	5944.2
Recurring	2656.0	-	4744.0	3414.4	-	5944.2
Non Recurring	0.0	-	0.0	0.0	-	0.0
Support	0.0	-	0.0	0.0	-	0.0
Other Support	0.0	-	0.0	0.0	-	0.0
Initial Spares	0.0	-	0.0	0.0	-	0.0
MILCON	0.0	0.0	-	0.0	0.0	0.0
Acq O&M	0.0	0.0	-	0.0	0.0	0.0
Total	8515.8	11800.4	N/A	11470.9	9573.9	13390.5

CADE: Help Desk

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

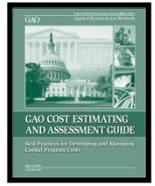
Comment/Question: (Max 1024 chr)

O & S



VATs

CERS
 $y = ax^b$



Increment 2.0 Vision

CPR, IMS, CCDR and SRDR VATs

Weapon System Contractor Access to Own Data

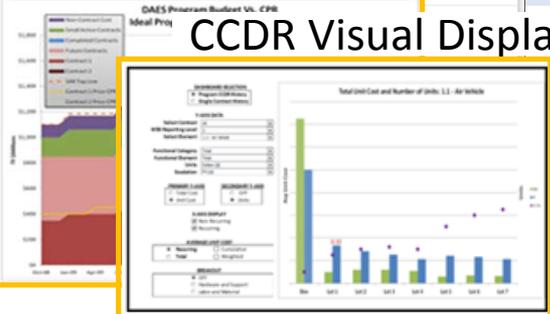


New website/portal design

CPR Visual Display

Program-level Visual Display

CCDR Visual Display

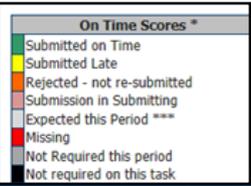


CCDR Data Browse

NAIC	NAIC Description	NAIC Code							
10	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
11	Food Services	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
12	Accommodation and Food Services	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
13	Arts, Entertainment, and Recreation	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
14	Health Care and Social Assistance	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
15	Manufacturing	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
16	Wholesale Trade	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
17	Retail Trade	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
18	Transportation and Warehousing	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
19	Information	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
20	Finance and Insurance	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
21	Real Estate and Rental and Leasing	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
22	Management of Companies and Enterprises	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
23	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
24	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
25	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
26	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
27	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
28	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
29	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
30	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
31	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
32	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
33	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
34	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
35	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
36	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
37	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
38	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
39	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
40	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
41	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
42	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
43	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
44	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
45	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
46	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
47	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
48	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
49	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00
50	Administrative and Support Activities	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00	800,000.00

UNCLASSIFIED

Contractor Compliance Report Card



New Data Notification

Data Availability

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

EVM - Task 1

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

Enhanced Program Search

EVM Portfolio Visual Analysis

Share Saved Views

Continually expanding set of widget capabilities

Enhanced CCRL-CADE integration

Bulk Download

- Download All CSDR Data
- Download All EVM Data

Continually expanding set of widget capabilities

CERs

$y = ax^b$

Enhanced CCRL-CADE integration

CADE: Help Desk

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

Comment/Question: (Max 1024 chr)

O & S

V A T S

Increment 3.0 Vision

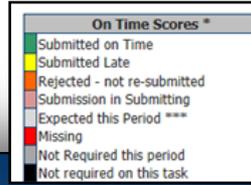
CPR, IMS, CCDR and SRDR VATs

User Metrics

Contractor Compliance Report Card

Data Availability

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



Knowledge Portal DCARC CAPE

DCARC HOME BROWSE PROGRAMS DASHBOA ID TOOLS SOURCE DATA CONTACT US

USS Voyager

CADE Total Access

Search Collapse Widgets >

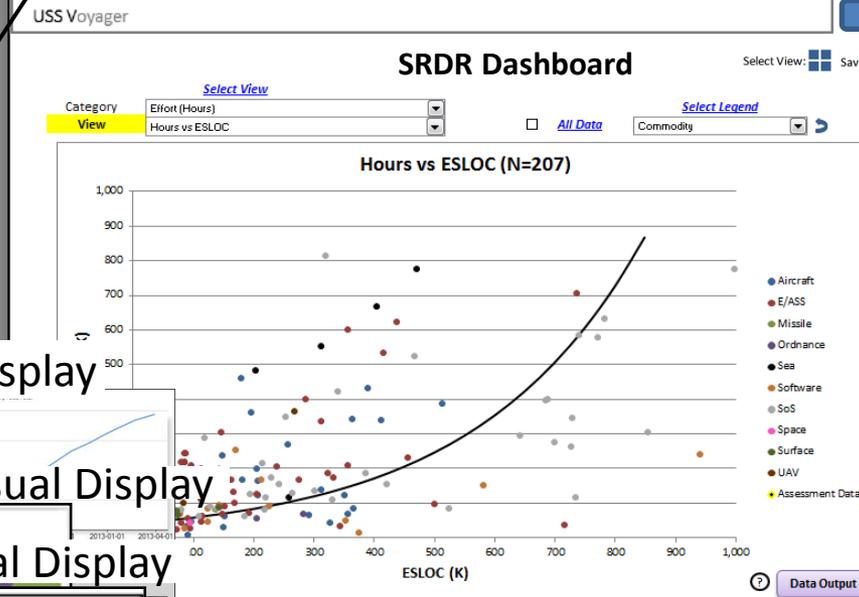
Bulk Download

- Download All CSDR Data
- Download All EVM Data

Continually expanding set of widget capabilities

Top CADE Users

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



USS Voyager

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

Milestones

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

Key Program Events

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

CADE Community

4 Analysts have been assigned to this program.

BDopkeen shared a PowerPoint.

KHazel posted a link.

BDopkeen posted a note.

Elogfren shared an Excel Document.

CCRL Search

Open CCRL website in a new tab

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

External Links

Opens in new tab



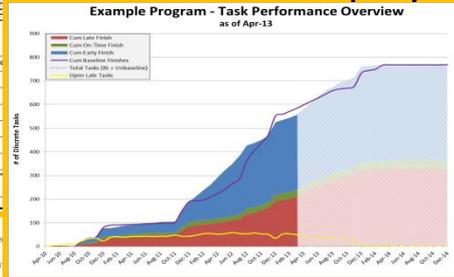
CPR Visual Display

Program-level Visual Display

CCDR Visual Display

Software Visual Display

IMS Visual Display



CADE: Help Desk

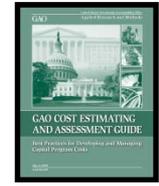
- Data Retrieval
- Data Quality
- Data Visualization
- Tools
- Widgets
- Community Knowledge / Data Upload
- Suggestions / Feedback

Comment/Question: (Max 1024 chr)

Access AIR documents

CERs

$$y = ax^b$$



O & S

V A T S

Increment 4.0 Vision

CPR, IMS, CCDR and SRDR VATs

Data Availability

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

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

Contractor Compliance Report Card

On Time Scores *

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



New website/portal design

Knowledge Portal DCARC CAPE

CADE Total Access

SEARCH

Log Out

Bulk Download

Download All CSDR Data

Download All EVM Data

Build Portfolio

Browse Programs

Active Inactive

Service: Army Navy Air Force

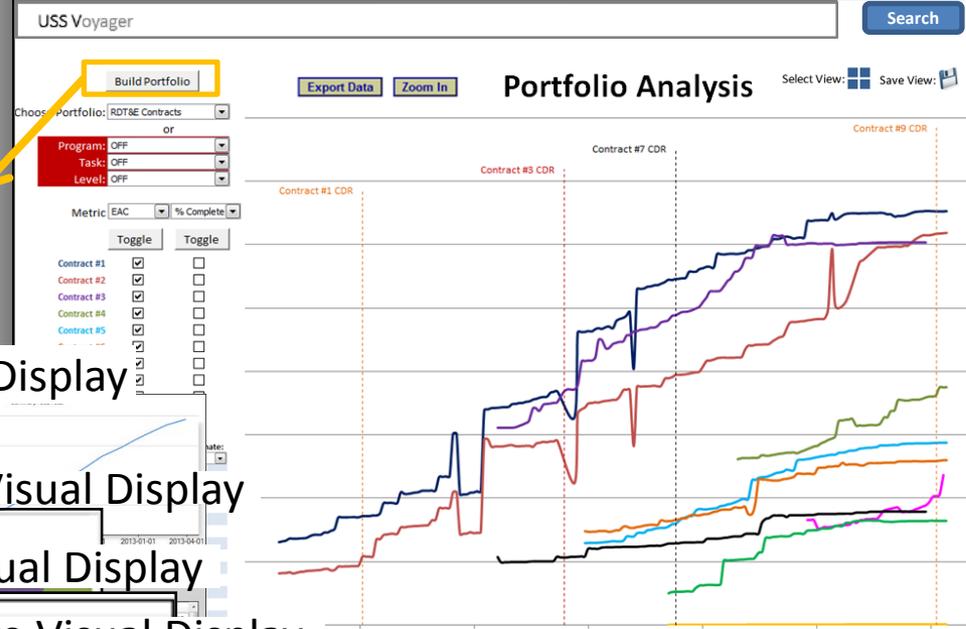
JCA: Net Centric Battlespace Logistics Protection Force Support Force Application

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

Cost Growth: Range: +/- %

% Expanded: Range: +/- %

Total Budget Size: Range: +/- %



USS Voyager

Program View in DAMIR

RDT&E: \$14,268M

Procurement: \$7,628M

Units: 2

Milestones

Milestone	APB Obj.	APB Thres.	Current
Concept Dem.	Jul. 2012	Dec. 2012	Apr. 2013
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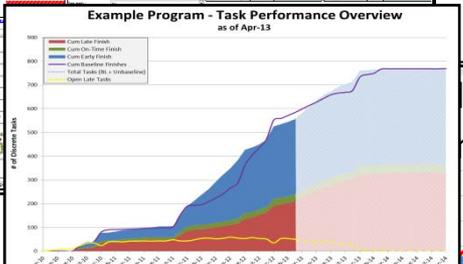
Continually expanding set of widget capabilities

CPR Visual Display

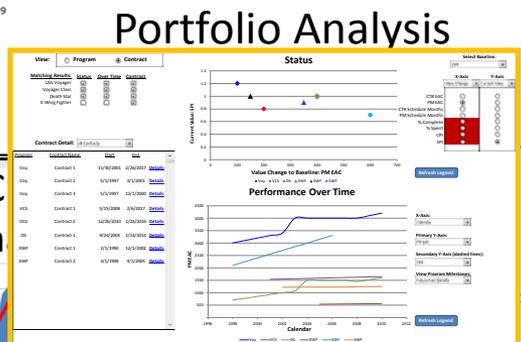
Program-level Visual Display

CCDR Visual Display

Software Visual Display



IMS Visual Display



Key Program Events

Key Events list maintained by Community

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

CADE Community

4 Analysts have been assigned to this program.

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

CCRL Search

Open CCRL website in a new tab

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

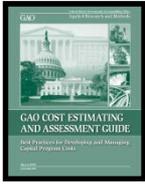
External Links

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

Search for a program among official language and the law.

CERs

$$y = ax^b$$



S

V
A
T
S

Comment/Question: (Max 1024 chr)



CADE Vision of the Future: Total Analyst Access

OSD CAPE

Seamless integration of authoritative data sources

CPR, IMS, CCDD and SRDR VATS



Vision of Future Capability

Contractor Compliance Report Card

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

Data Availability **EVM - Task 1**

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

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

Bulk Download

Download All CSDR Data

Download All EVM Data

Continually expanding set of widget capabilities

CPR Visual Display

Program-level Visual Display

CCDD Visual Display

Software Visual Display

IMS Visual Display

Example Program - Task Performance Overview as of April 13

Portfolio Analysis

CADE Community

CCRL Search

External Links

CERS

$y = ax^b$

Search for a program among official language and the law.



VATS

Community Collaboration

- Objectives
- Comprehensiveness & Vision
- History – Analysis Evolution
- Today's Process
- Vision – Total Analyst Access
- Inc 2.0 (Today – released beginning of Oct 2014) & Incs 2.5-4
- **Community Integration**
- **Government-Industry Cooperation Opportunities**
- Current Collaboration & Government CSDR Evolution
- Long Term Plan & Short Term Focus
- **Opening CADE to the Cost Community**

CAPE

COST ASSESSMENT & PROGRAM EVALUATION

CADE Integration Across the Community

OSD CAPE



FFRDC



Other Gov't

GAO Reports



Law and Language



JDocs Budget Info

AT&L

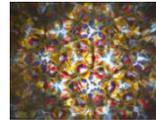
AIR Authoritative Documents



DAMIR:



SAR, APB, DAES



Kaleidoscope Visualization

Contract Business Analysis Repository (CBAR)

Cost Community

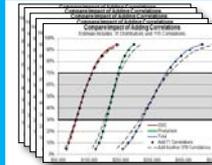
SAR Database



Collaborative Cost Research Library (CCRL)



Contracts Database Tool



Joint CSRUH

JCARD Cost Database



JIAT/ACDB: Cost, Technical & Contract Data

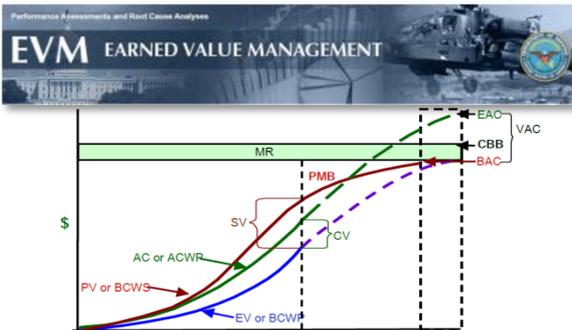
Tri-Service Missile Database/Handbook

Air Force Financial Management & Comptroller



CADE Foundations

PARCA: EVM Cost and Schedule Data



Quick Access to Data and Visual Analysis Tools



DCARC: CSDR Cost and Software Data





Opportunities for Government-Industry Cooperation

OSD CAPE

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

Collaboration Example: CADE Infrastructure & Data

- Objectives
- Comprehensiveness & Vision
- History – Analysis Evolution
- Today's Process
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- Inc 2.0 (Today – released beginning of Oct 2014) & Incs 2.5-4
- Community Integration
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- **Current Collaboration & Government CSDR Evolution**
- Long Term Plan & Short Term Focus
- Opening CADE to the Cost Community

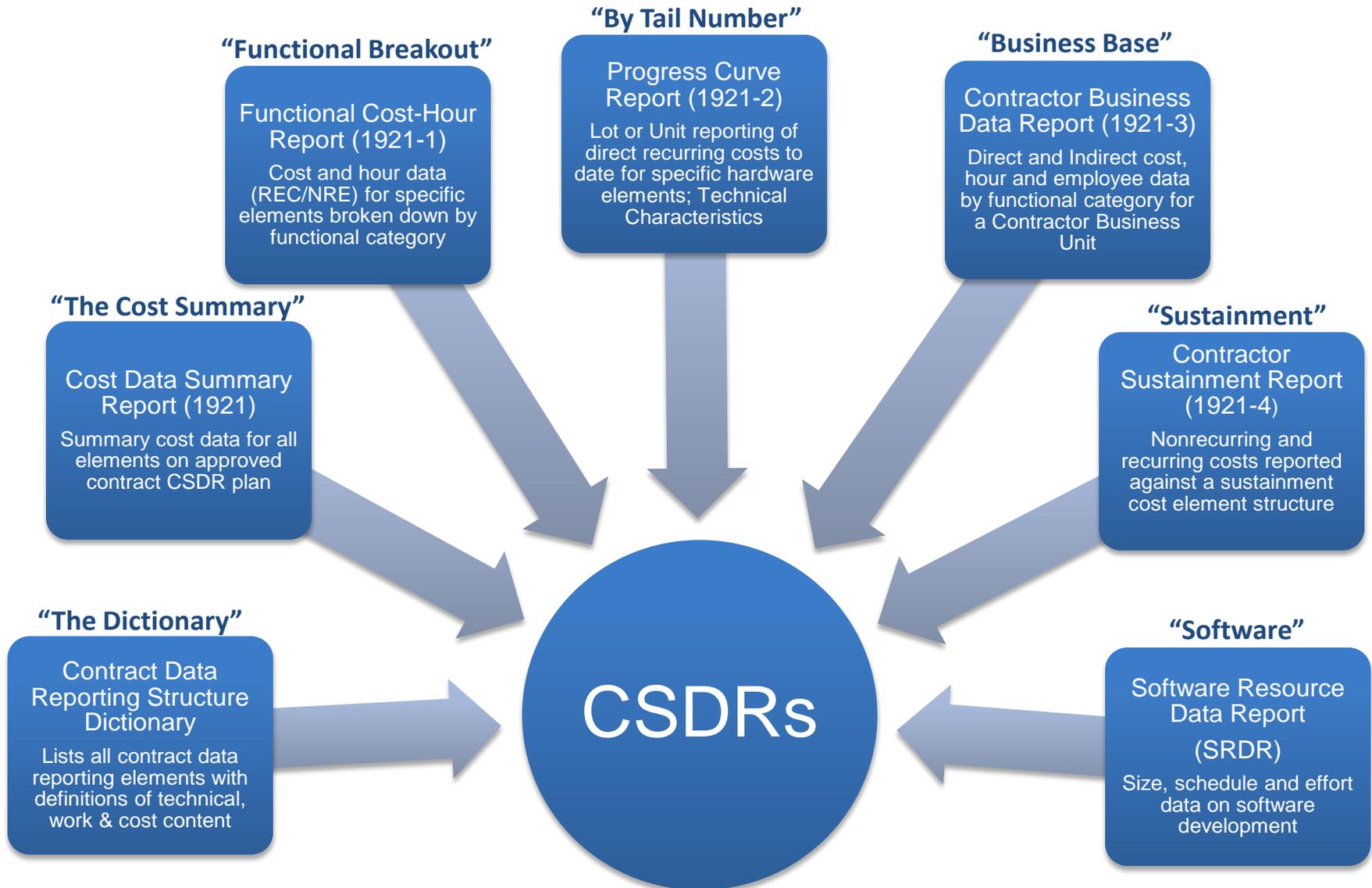
CADE

COST ASSESSMENT & PROGRAM EVALUATION



CSDR Data We Collect Today

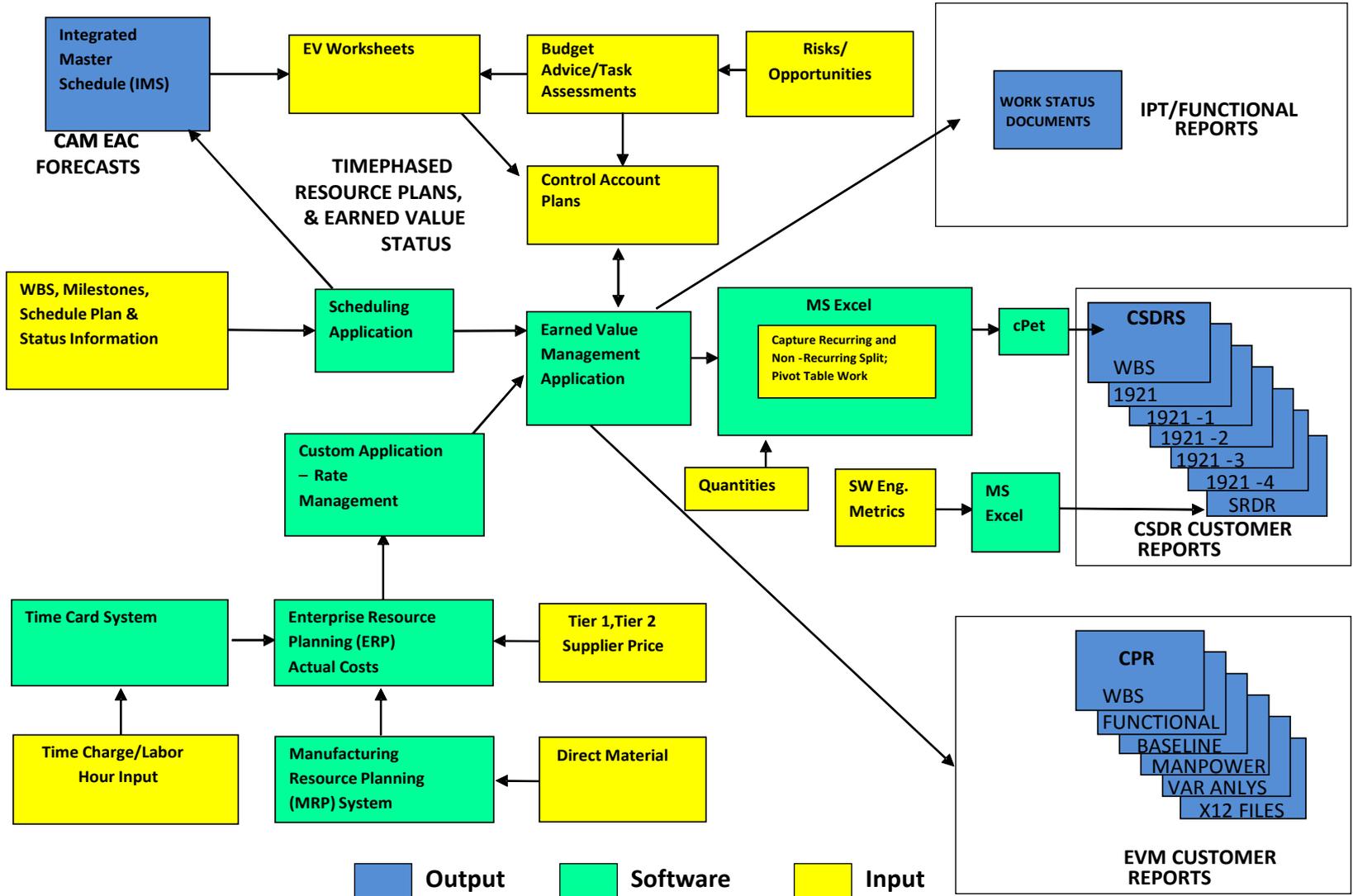
OSD CAPE





Today's 1921 Process

OSD CAPE

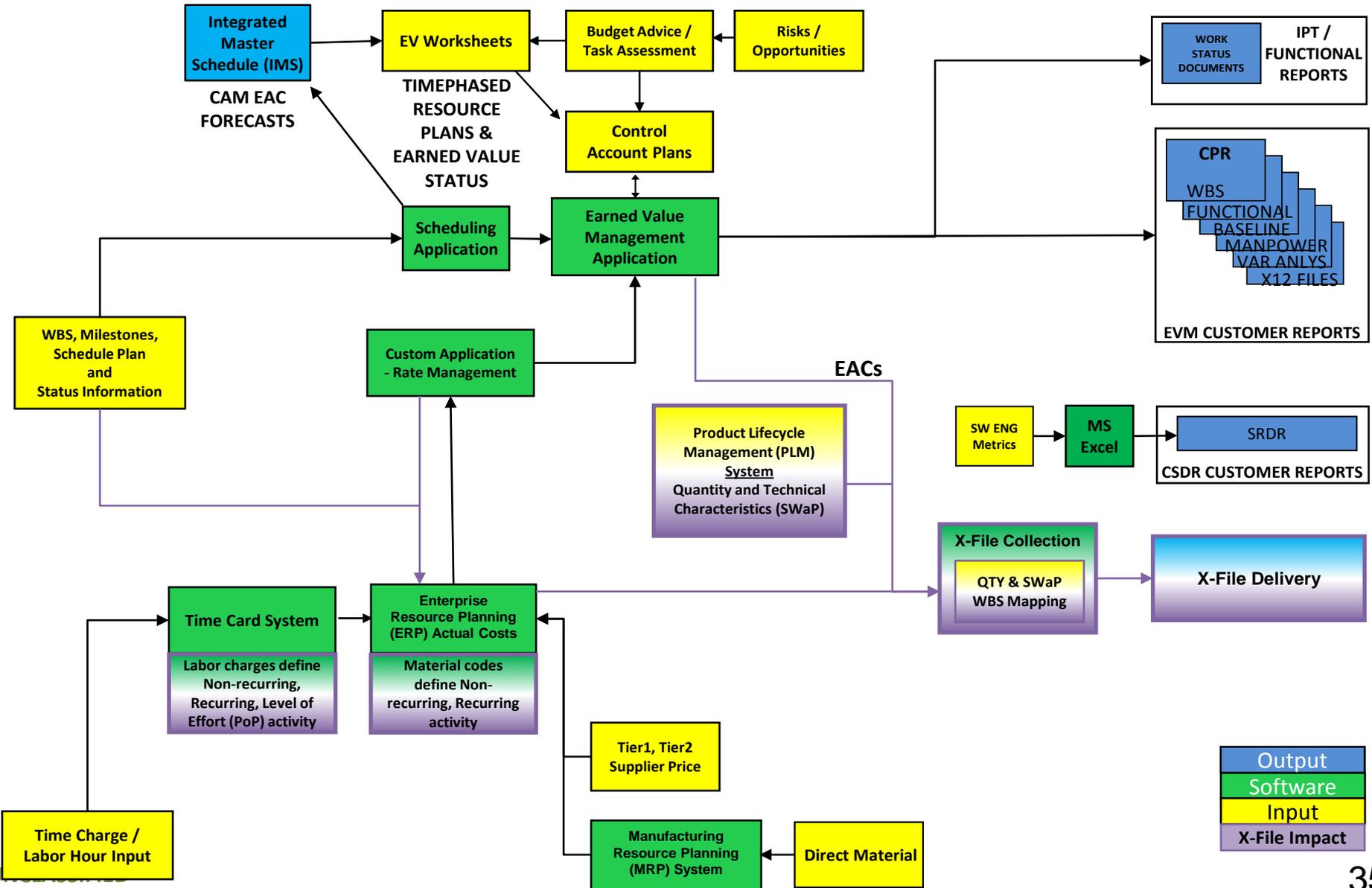


Inconsistent data: report to report, contractor to contractor, program to program



Moving to the X-Files

OSD CAPE





Revolutionizing Data Collection: Moving to The X-Files

OSD CAPE

Automated

- Less labor intensive

Data provided at lower levels

- Eliminates errors of mapping and allocation
- Allows analysts more insight

Able to read in contractor formats

Higher frequency of submissions

- Contractors willing to provide data more often in exchange for ease of reporting

Allows for detailed look into current programs

Reduces need for government Q/C

Joint plan and reporting structures between Cost Community & AT&L



Current Collaboration

OSD CAPE

Cross-Agency Working Groups to Improve Data Comprehensiveness:

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

1921-3: Mike Biver, CAPE

Sustainment (old 1921-4): Tom Henry, CAPE

SRDR: Ranae Woods, AFCAA

CCDR Tech Data Reporting: Greg Hogan, AFCAA

- Cross Agency Leaders by Commodity Group

CARD: Curt Khol, CAPE

MAIS: Jim Judy, DASA-CE

Office Collaboration:

NCCA	JCARD and CCRL NCCA leadership
MDA	DCARC Operations Support, Consolidated Cost Research Working Group
Army	JIAT/ACDB DASA-CE
AFCAA	AFCAA joint effort on CADE OpYr1, Aviation CIPT, Missile Database, Contracts Database, DCARC Ops Support
AT&L	DAVE (DAMIR, AIR, Kaleidoscope) DPAP's CBAR PARCA Joint Planning/WBS

Service POCs:

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

Navy: John Fitch
john.fitch@navy.mil

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

Long Term Plan

- Objectives
- Comprehensiveness & Vision
- History – Analysis Evolution
- Today's Process
- Vision – Total Analyst Access
- Inc 2.0 (Today – released beginning of Oct 2014) & Incs 2.5-4
- Community Integration
- Government-Industry Cooperation Opportunities
- Current Collaboration & Government CSDR Evolution
- **Long Term Plan & Short Term Focus**
- **Opening CADE to the Cost Community**

CAPE

COST ASSESSMENT & PROGRAM EVALUATION



CADE Objectives/KPPs & Priorities

OSD CAPE

- **Improve Analyst Productivity**
 - Increase output per unit time
 - Provide near real-time access to data, more data, and less burden on the analyst to retrieve and process
 - Reduce time for analyst to climb the program familiarization learning curve
- **Effectiveness**
 - Enable more comprehensive assessments
 - Gain insight from previous analysts
 - Facilitate telling the program’s “story”, holistic analysis
- **Data Quality and Reporting Compliance Improvement**
 - Includes all the Department’s cost data - both EVM and CSDRs
- **Source Data Transparency**

Mission Priority: Analyst Productivity

1. Need our mission essential data for everyone at a push of a button NOW

- CSDR Data
- EV Data

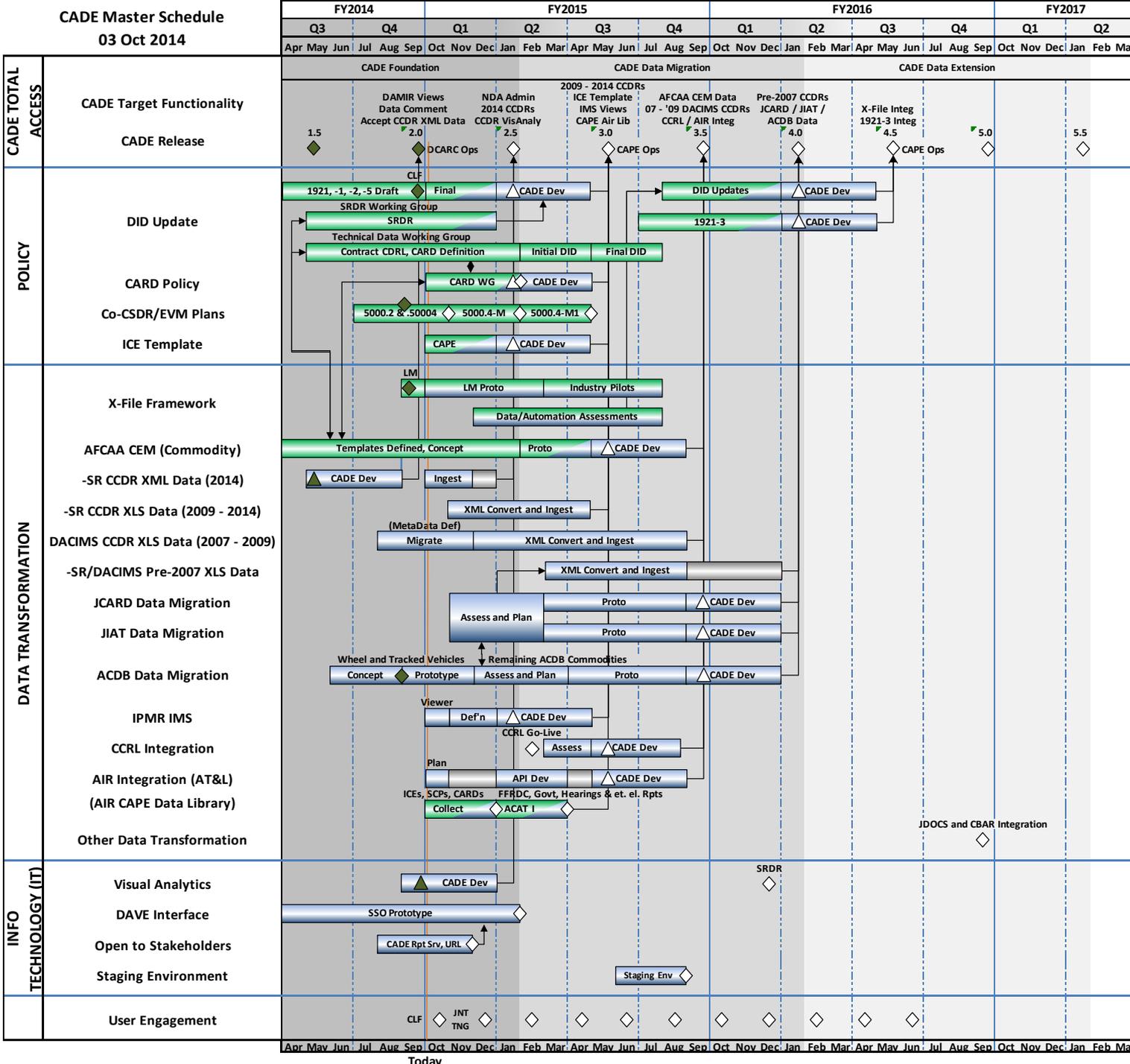
2. Need required supporting data for everyone at a push of a button

- Acquisition/Programmatic data
- Technical data
- Cost Research Reports

3. Improvement of data quality

- CSDR Working Groups (1921/-1/-2, -3, -4, SRDR, Tech Data)
- EV Data (Data checks, improvement of Formats 2,3,4,5)

4. Supporting tools, standardization, mapping for the cost community



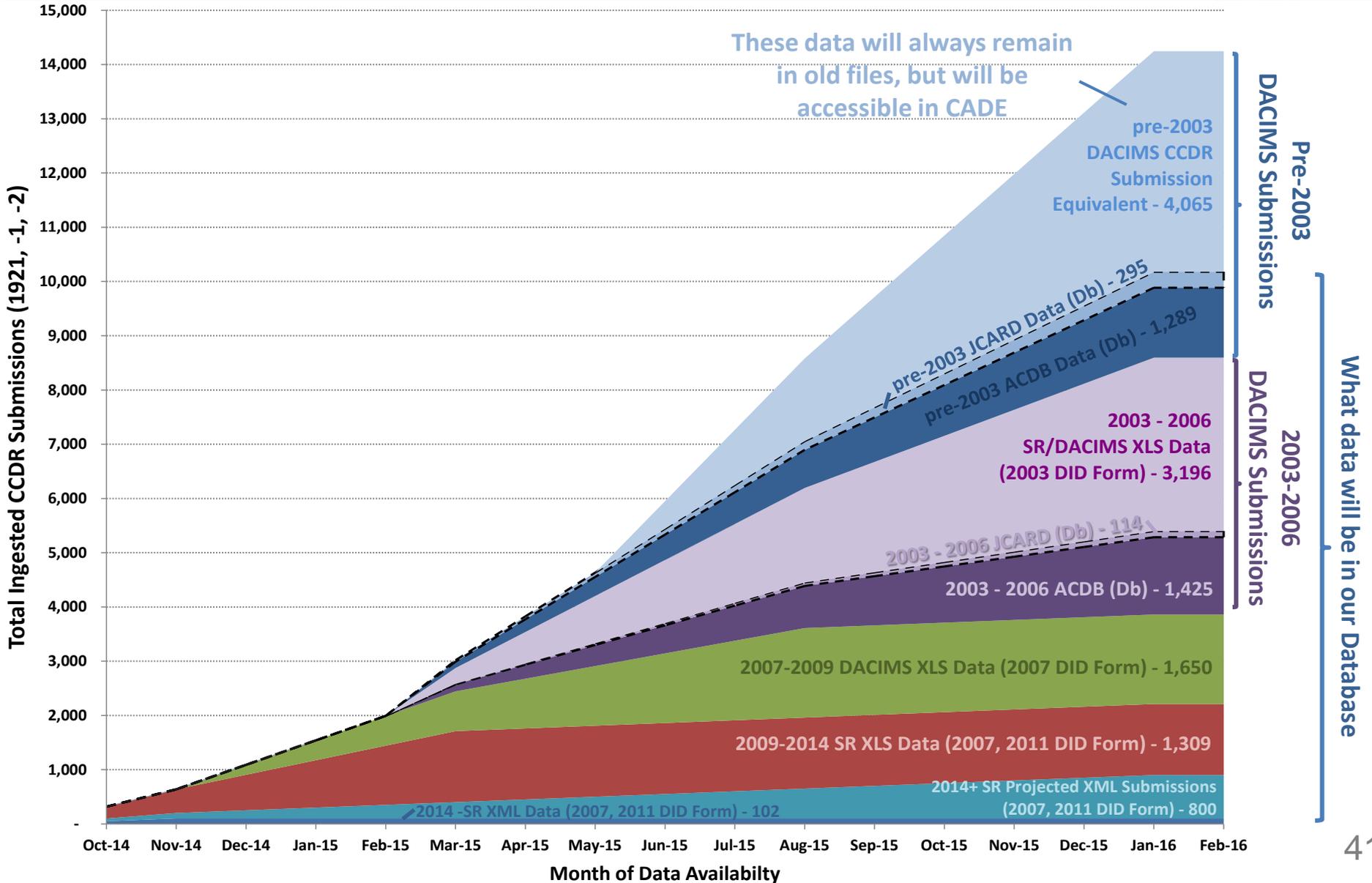
Activity Legend

- Government
- Contractor
- Planned
- Critical
- Margin
- Link
- △ CADE Rel Baselined



Focus on CSDR Data: CADE Data Migration Plan

OSD CAPE





Reminder: Fast Moving to the X-Files Timeline

OSD CAPE

- 1921 DID Update – Dec 2014
- Updated CARD requirements issued – Jan 2015
- Metadata requirements issued – April 2015
- Initial “X-file” prototypes complete – Feb 2015
- Cross industry “X-file” prototypes complete – July 2015
- “X-file” DID released - Nov 2015

Extremely aggressive timeline designed to keep momentum going in the cost community and to institute under current DoD leadership

When Can We Open CADE to the Cost Community?

- Objectives
- Comprehensiveness & Vision
- History – Analysis Evolution
- Today's Process
- Vision – Total Analyst Access
- Inc 2.0 (Today – released beginning of Oct 2014) & Incs 2.5-4
- Community Integration
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CADE

COST ASSESSMENT & PROGRAM EVALUATION

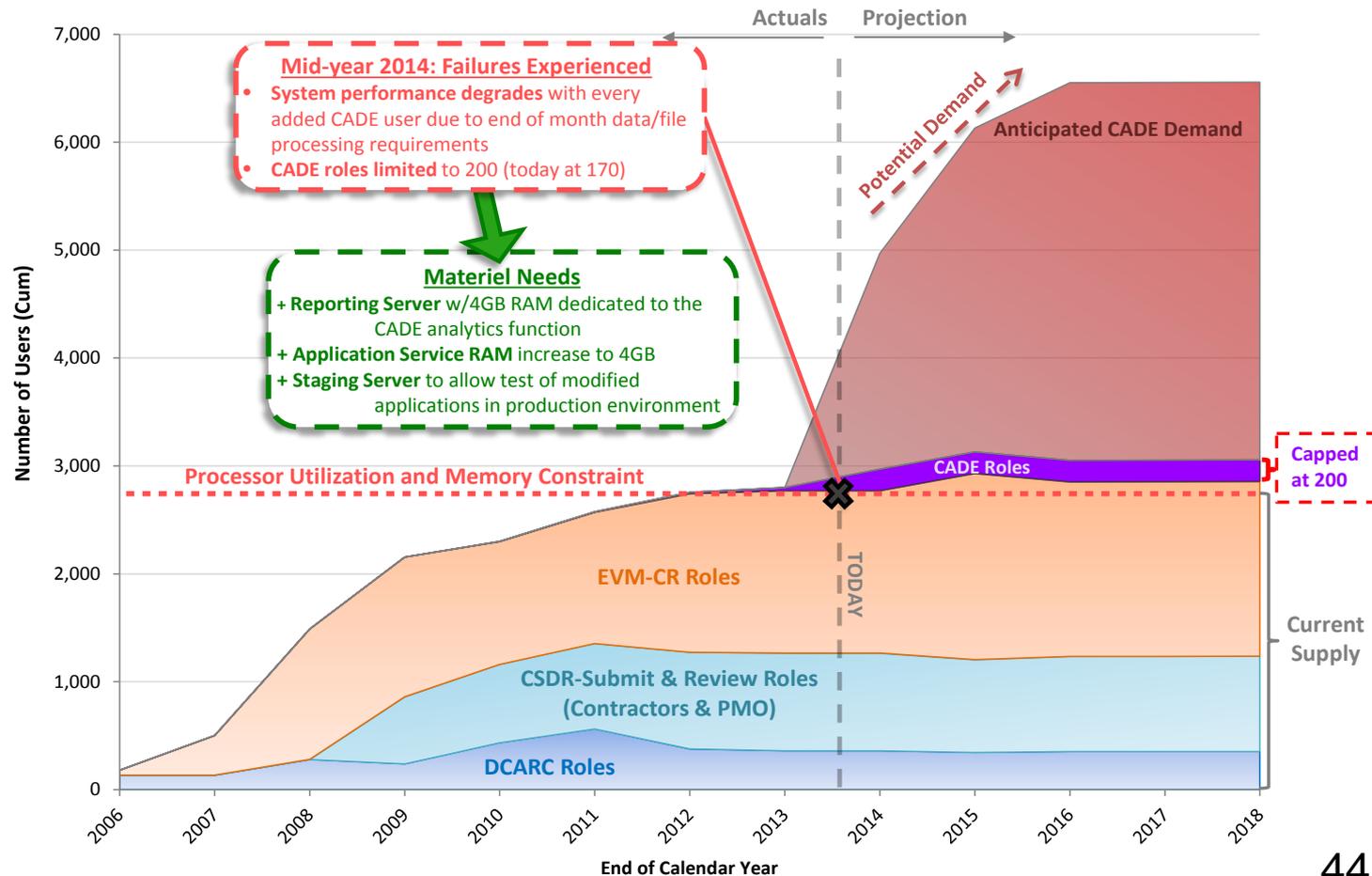


To Meet CADE User Demand, More Virtual Servers are Needed

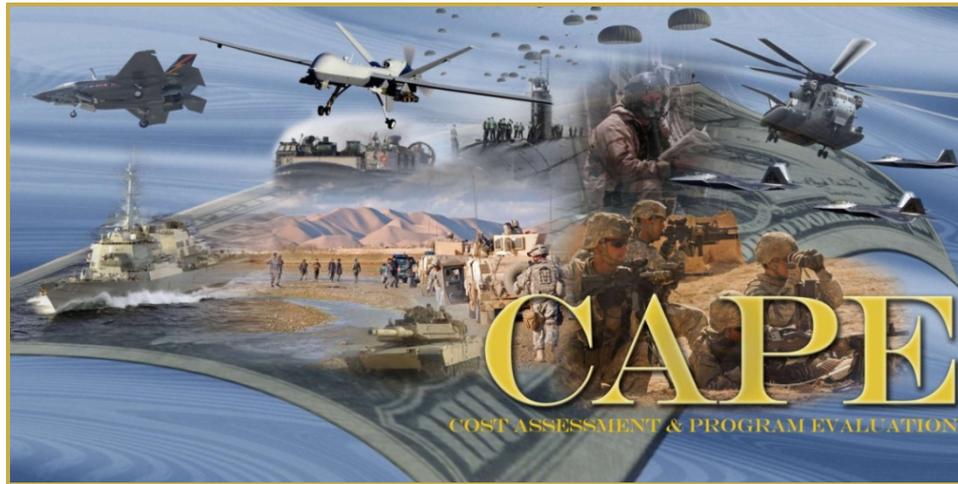
OSD CAPE

Met with JP's group and got a green light for:

- Additional reporting server for CADE analytics (4GB RAM)
- More Server RAM on application server (+2GB)
- An additional on site staging server (4GB RAM) – will take longer (>1yr)



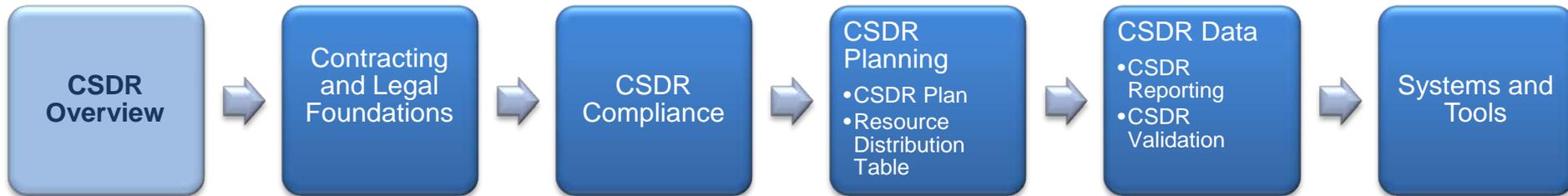
Cost and Software Data Reporting





CSDR Overview

OSD CAPE





Introduction

OSD CAPE

- 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

OSD CAPE

What does DCARC do?

- Provide cost and software data reports (CSDRs) 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

OSD CAPE

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

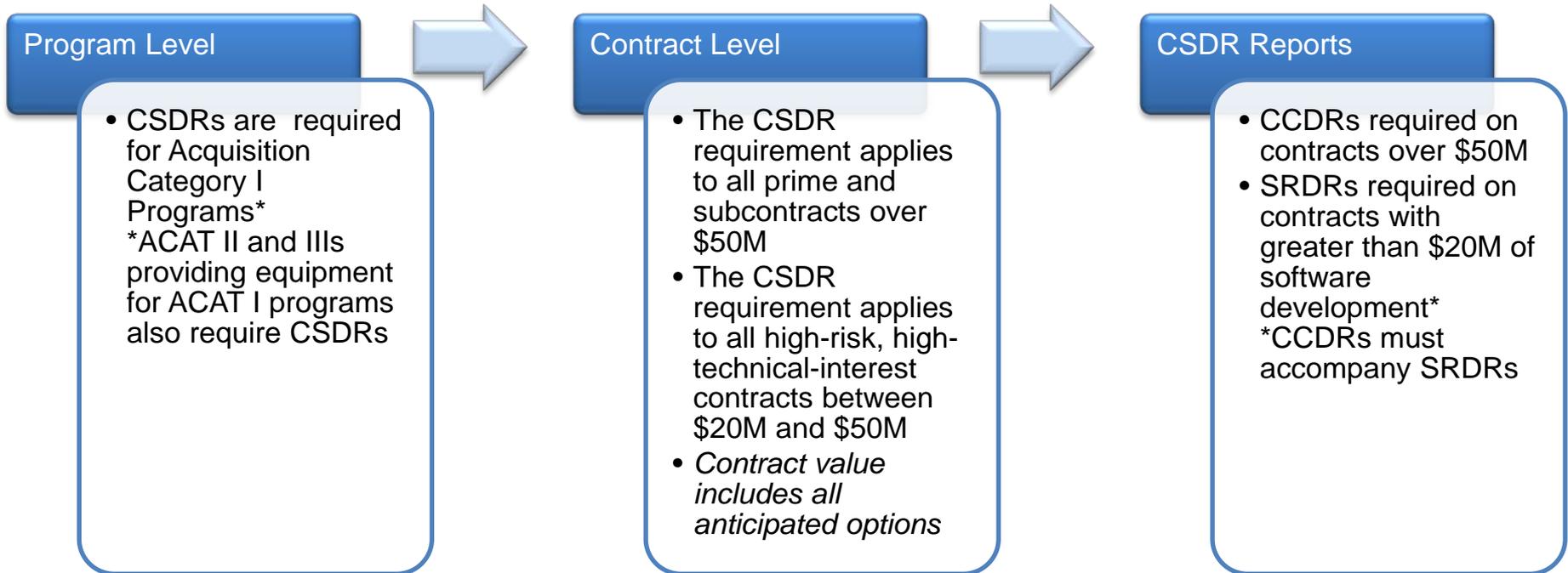


CSDR Applicability

OSD CAPE

Who must submit CSDRs?

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

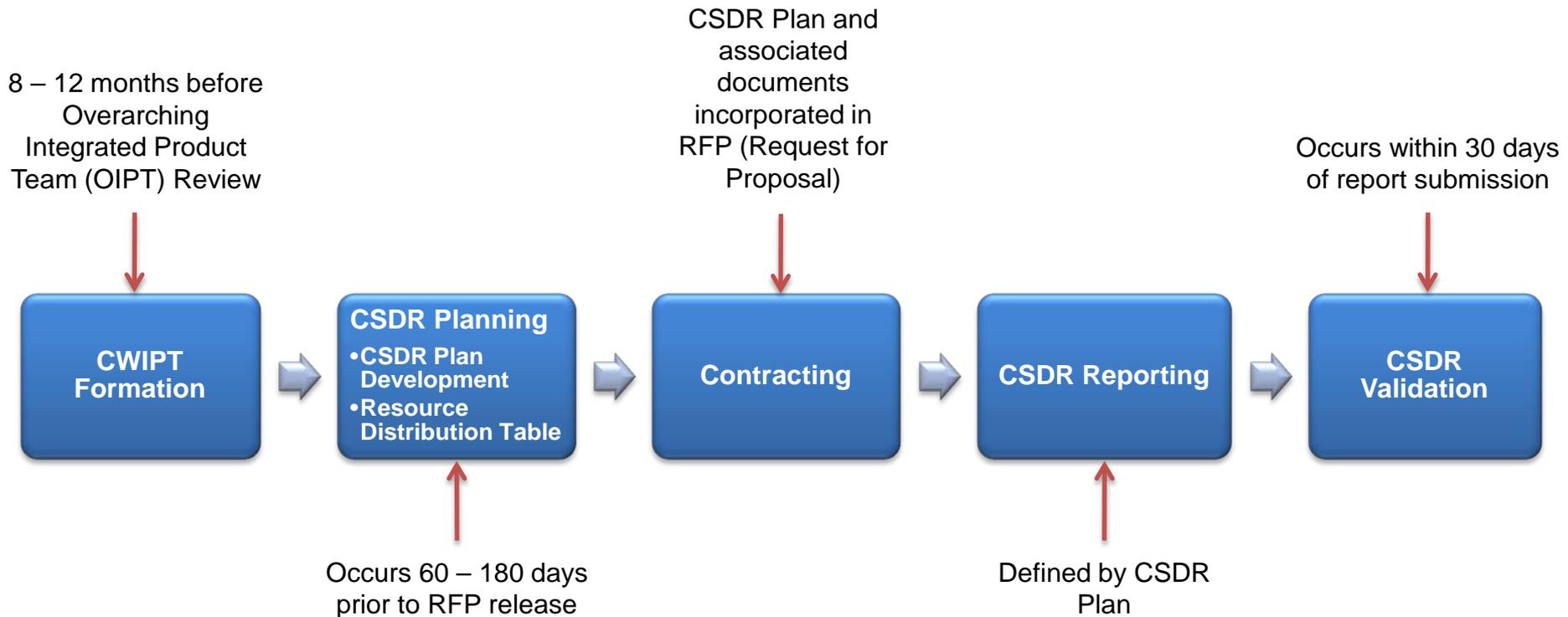


CSDRs may be required for contracts less than \$20M based on cost community needs



The CSDR Process

OSD CAPE



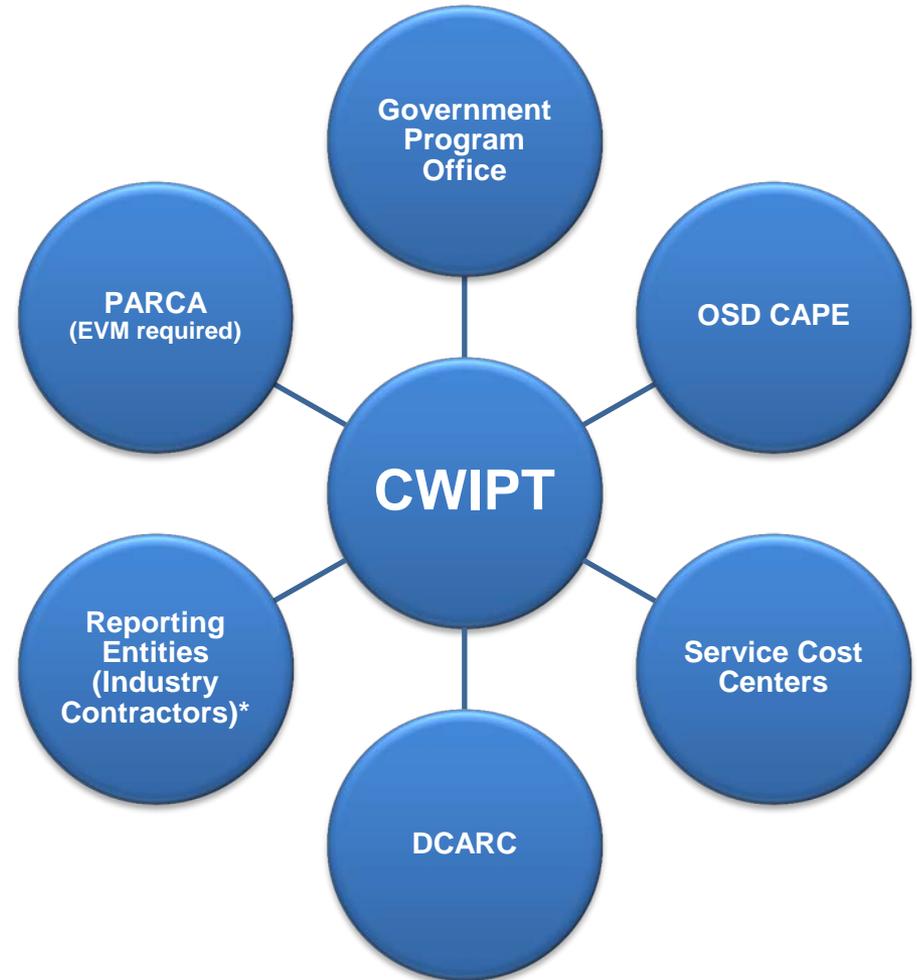


Cost Working Integrated Product Team (CWIPT)

OSD CAPE

Who takes part in the CSDR process?

- Involvement of government agencies and industry in the CWIPT 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 CWIPT



CWIPT Members

OSD CAPE

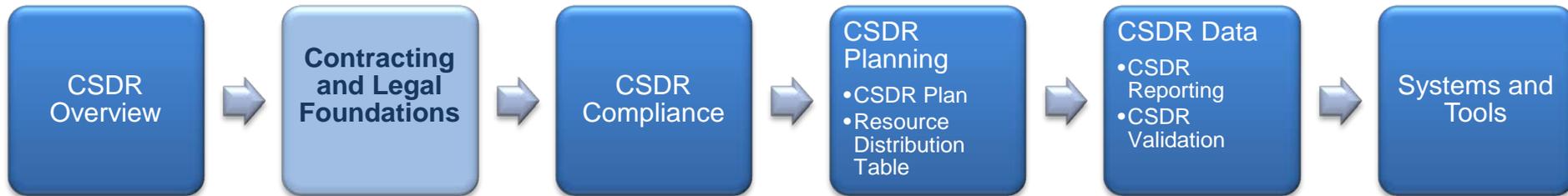
CWIPT Members

- **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 and reports provide the necessary insight for component cost estimates at Milestone Decision Authorities (MDAs)
- **DCARC** – Facilitate CSDR planning and reporting
- **OSD CAPE** – Review and approve CSDR plans and reports to ensure necessary data is collected for Independent Cost Estimates (ICEs)
- **Reporting Contractors** – Submit CSDRs in accordance with CSDR plans to DCARC for review and approval
- **PARCA** – Manage Earned Value Management (EVM) performance, oversight and governance, influence reporting structure to ensure management needs are satisfied



Contracting and Legal Foundations

OSD CAPE





Contracting

OSD CAPE

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

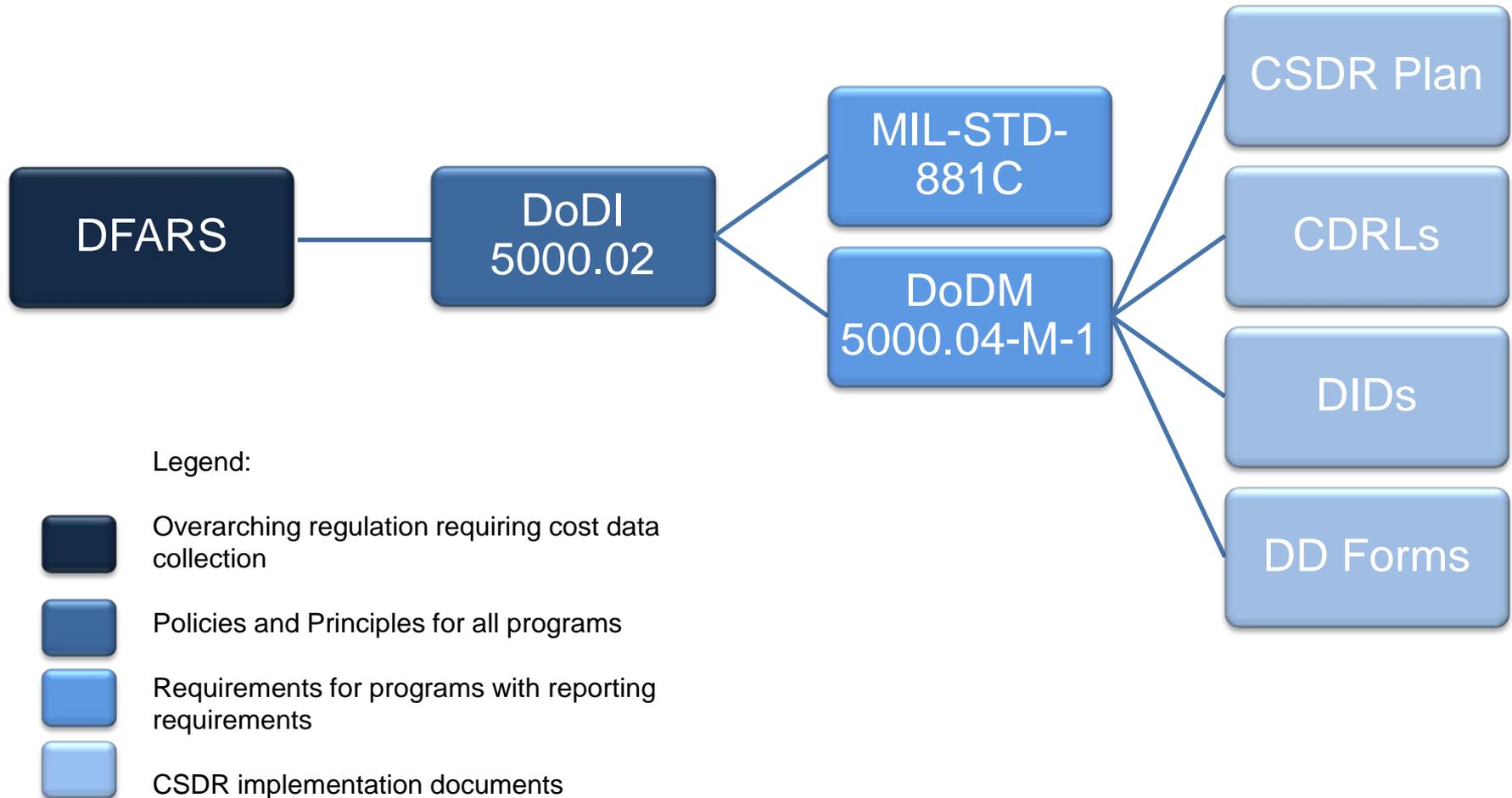
The CSDR plans and requirements must be included in the Request for Proposal (RFP). This allows the contractors to map their accounting systems to collect costs in accordance with the data reporting structure.



Legal Foundations for Reporting

OSD CAPE

What mechanisms enforce CSDRs?





Overarching Legal Foundations

OSD CAPE

- 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

OSD CAPE

- 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

OSD CAPE

- 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

DIDs, DD Forms and CDRLs are available on the DCARC website (<http://dcarc.cape.osd.mil/csdr/default.aspx>) by selecting the links for “DIDs and Reporting Forms” and “CDRL Examples”

CDRL Example (DD Form 1423-1)

OSD CAPE

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)						Form Approved OMB No. 0704-0188					
<p>The public reporting burden for this collection of information is estimated to average 110 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, Paperwork Reduction Project (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of this form, it shall not impose any burden on any person who is not subject to the collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.</p>											
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ OTHER _____							
D. SYSTEM/ITEM			E. CONTRACT PR NO.		F. CONTRACTOR						
1. DATA ITEM NO.		2. TITLE OF DATA ITEM Contract Work Breakdown Structure (CWBS)		3. SUBTITLE							
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81334D			5. CONTRACT REFERENCE		6. REQUIRING OFFICE						
7. DD 250 REQ		9. DIST STATEMENT REQUIRED		12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION					
8. APP CODE		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE					
						b. COPIES					
						Draft Reg Repro					
10. REMARKS				17. PRICE GROUP							
<p>Blocks 10 - 13: Prepare the CWBS in accordance with DI-MGMT-81334D (or the most recently approved version) and the OSD Deputy Director, Cost Assessment (DDCA)-approved contract CSDR Plan. The DID, DI-MGMT-81334D, is available from the Defense Cost and Resource Center (DCARC) website at http://dcarc.cape.osd.mil. The CSDR Plan is included as a contract attachment.</p> <p>Contractors shall be required to submit the CWBS Dictionary at frequencies specified in the OSD DDCA-approved contract CSDR plan and in the contract. The contract CSDR plan uses the event field as the driver for the submission of the reports, not the "as of date." If the event slips, the contractor must notify the Government Program Office that a date change is needed. It is the responsibility of the Government Program Office to submit a request for change in the event-driven date for reporting through the CSDR Submit-Review system for DCARC approval before the date reflected in the OSD DDCA-approved CSDR Plan.</p> <p>The CWBS Dictionary shall be submitted electronically using the CSDR Submit-Review System. Data submitters must register through the DCARC website and possess a DoD-approved ECA digital certificate or a DoD-issued CAC to obtain a DCARC Portal account and be authorized to upload CSDR content. Users can obtain access by submitting user information about themselves and their organizations to the DCARC Portal and requesting a CSDR submitter user role. After the registration information has been verified, the DCARC shall authorize the user account and requested role. All DCARC Portal accounts need to be renewed at least annually.</p> <p>Subcontractor Reporting. Prime contractors are responsible for flowing down CSDR requirements contained in their prime contracts to all subcontractors who meet the reporting thresholds specified in the DoDI 5000.02, or as required by the CWIPT. This includes requiring subcontractors to electronically report directly to the DCARC using the CSDR Submit-Review System.</p> <p>The prime contractor shall be required to work with the CWIPT and all appropriate subcontractors to prepare separate subcontract CSDR plans for submission to the DCARC for DDCA approval.</p>				18. ESTIMATED TOTAL PRICE							
				DCARC							
				See Block 16							
				15. TOTAL → 0 0 0							
G. PREPARED BY		H. DATE		I. APPROVED BY		J. DATE					

DD FORM 1423-1, FEB 2001

PREVIOUS EDITION MAY BE USED.

Page ___ of ___ Pages

Reset

Metadata:

- Contract Line Item Number (CLIN)
- System acquired
- Contract number
- Data Item Description (DID) reference
- Contract reference to tasking (e.g., SOW paragraph number)
- Distribution
- Frequency

Distribution Requirements:

- DCARC

Standard Remarks Language, includes clarifying information for:

- CSDR Plan attachment
- Subcontractor Reporting requirement
- Submission frequency
- Instructions for delivery to DCARC

Preparer and Approver Signatures



Contracting & Legal Foundations Summary

OSD CAPE

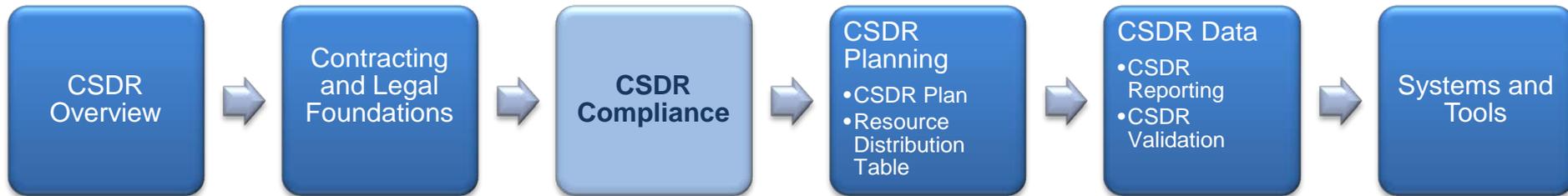
- A number of documents provide a foundation for efficient and consistent submittal of quality CSDRs
- Ensuring the CSDR requirement is in the RFP and put on contract at award is essential to:
 - Confirming the cost accounting system is setup to collect costs accurately in accordance with the DIDs and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

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



CSDR Compliance

OSD CAPE





CSDR Compliance

OSD CAPE

- CSDR Compliance assessments are compiled quarterly for all programs
- Assessments serve as a mechanism to ensure:
 - Contractors are submitting required data
 - Program Offices are putting CSDR requirement on contract
 - DoD Senior Leadership is informed of CSDR issues and delinquencies



CSDR Compliance Rating Criteria

OSD CAPE

- Rating criteria emphasizes on submitting required data on time

Rating	Criteria
Green	No open CSDR compliance issues
Green Advisory	All outstanding CSDR deliverables* are less than three months overdue.
Yellow	Any outstanding CSDR deliverable greater than three months, but less than six months overdue.
Red	Any outstanding CSDR deliverable greater than six months overdue, and/or the Program Office performed any of the following actions: <ol style="list-style-type: none"> 1. RFP released without an approved CSDR plan. 2. Prime contract awarded without an approved CSDR plan. 3. Subcontract awarded without an approved CSDR plan.

*CSDR deliverables include Contract Data Reporting Structure Dictionaries, CCDRs, SRDRs, and CDRLs



CSDR Compliance Execution

OSD CAPE

- DCARC notifies program offices, via email, about all CSDR-related issues two weeks prior to release of assessments to OSD
- Program offices must respond to the DCARC regarding their compliance status and provide a closure plan for known issues



Impact of CSDR Compliance Assessments

OSD CAPE

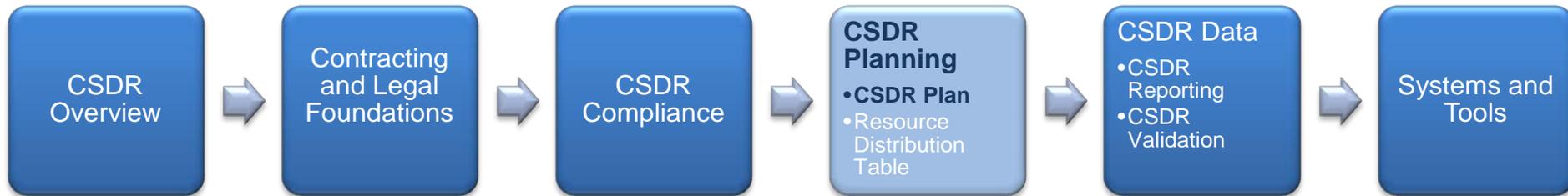
- Assessments are submitted as CAPE's input to the Defense Acquisition Executive Summary (DAES) process
- Red programs are brought to the attention of CAPE leadership, and may be elevated
- Systemic CSDR-related issues and lack of data to support analysis have led to delayed program decisions such as milestone reviews and contract awards

Lack of data delays program decisions



CSDR Planning: CSDR Plan

OSD CAPE





CSDR Planning

OSD CAPE

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



CSDR Plans (DD 2794)

OSD CAPE

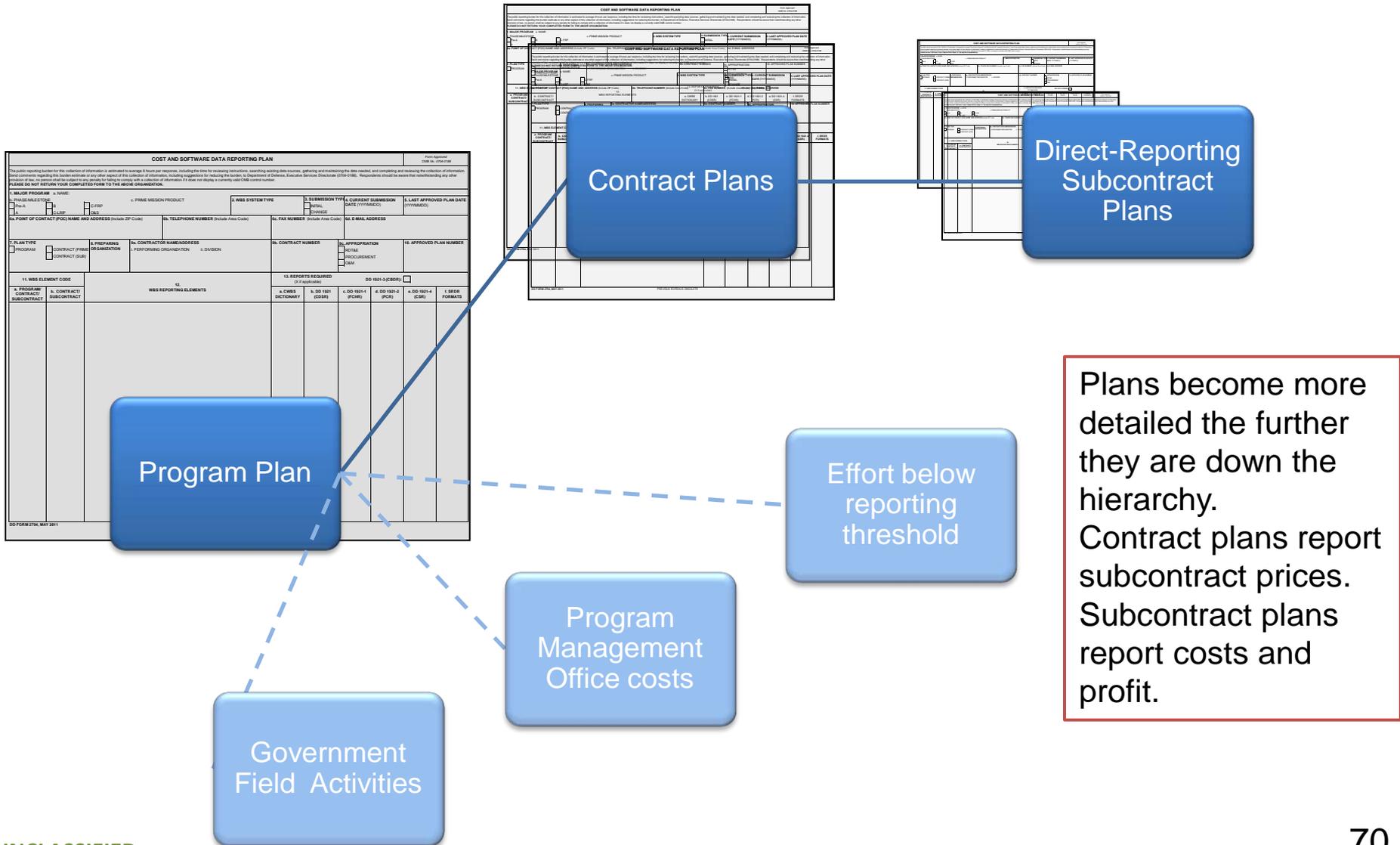
What is a CSDR Plan?

- 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

OSD CAPE





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							
<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 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.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.</p>													
1. MAJOR PROGRAM a. NAME: JAZZ-49 - Air-to-Air Missile		b. PHASE/MILESTONE		c. PRIME MISSION PRODUCT		2. WBS SYSTEM TYPE	3. SUBMISSION TYPE	4. CURRENT SUBMISSION DATE (YYYYMMDD)	5. LAST APPROVED PLAN DATE (YYYYMMDD)				
<input type="checkbox"/> Pre-A <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C-LRP <input checked="" type="checkbox"/> C-FRP <input type="checkbox"/> D&S		Air-to-Air Missile		Missile System		<input type="checkbox"/> INITIAL <input checked="" type="checkbox"/> CHANGE	20120202	20111205					
6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP Code)			6b. TELEPHONE NUMBER (Include Area Code)		6c. FAX NUMBER (Include Area Code)		6d. E-MAIL ADDRESS						
John Doe 121 Fike St Patuxent River, MD 12345			301-555-5555		301-555-5555		john.doe@navy.mil						
7. PLAN TYPE		8. PREPARING ORGANIZATION		9a. CONTRACTOR NAME/ADDRESS		9b. CONTRACT NUMBER		9c. APPROPRIATION	10. APPROVED PLAN NUMBER				
<input type="checkbox"/> PROGRAM <input checked="" type="checkbox"/> CONTRACT (PRIME) <input type="checkbox"/> CONTRACT (SUB)		Air-to-Air Missiles PMA-259		Fake Company Missiles and Fire Control 1151 E Fike St Tucson, AZ 12345		XXXXX-YYX-XXXX		<input type="checkbox"/> RDT&E <input checked="" type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M	N-11-E-C1(R)				
11. WBS ELEMENT CODE		12. WBS REPORTING ELEMENTS				13. REPORTS REQUIRED (X if applicable)							
a. PROGRAM/CONTRACT/SUBCONTRACT		b. CONTRACT/SUBCONTRACT						a. CWBS DICTIONARY	b. DD 1921 (CDSR)	c. DD 1921-1 (FCHR)	d. DD 1921-2 (PCR)	e. DD 1921-4 (CSR)	f. SRDR FORMATS
1.0		1.0		JAZZ-49 - Air-to-Air Missile				X	X	X			
1.1		1.1		Air Vehicle				X	X	X			
1.1.1		1.1.1		Airframe				X	N/A	X			
1.1.2		1.1.2		Propulsion Subsystem				X	N/A				
1.1.3		1.1.3		Power and Distribution				X	N/A				
1.1.4		1.1.4		Guidance				X	X				
1.1.4		1.1.4.1		Guidance (Unique)				X	X				
1.1.4		1.1.4.2		Guidance (FMS Unique)				X	X				
1.1.4		1.1.4.3		Guidance Software Development (Large Target Unique)				X	X				
1.1.5		1.1.5		Navigation				X	X				
1.1.6		1.1.6		Controls				X	X				
1.1.7		1.1.7		Communications				X	X				
1.1.8		1.1.8		Payload				X	N/A				
1.1.9		1.1.9		Reentry System				X	N/A				
1.1.10		1.1.10		Post Boost System				X	X				
1.1.11		1.1.11		Ordnance Initiation Set				X	N/A				
1.1.12		1.1.12		On Board Test Equipment				X	X				
1.1.13		1.1.13		On Board Training Equipment				X	X				
1.1.14		1.1.14		Auxiliary Equipment				X	N/A				
1.1.15		1.1.15		Air Vehicle Software				X	X				
1.1.16		1.1.16		Air Vehicle Integration, Assembly, Test and Checkout				X	X				
1.2		1.2		Encasement Device				X	N/A				
1.3		1.3		Command and Launch				X	N/A				
1.4		1.4		Missile System Software				X	X	X			
1.5		1.5		Missile System Integration, Assembly, Test and Checkout				X	X	X			
1.6		1.6		Systems Engineering				X	X	X			
1.7		1.7		Program Management				X	X	X			
1.8		1.8		System Test and Evaluation				X	X	X			
1.9		1.9		Training				X	N/A				
1.10		1.10		Data				X	N/A				
1.11		1.11		Peculiar Support Equipment				X	X	X			
1.11		1.11.1		Test and Measurement Equipment				X	X				
1.11		1.11.2		Support and Handling Equipment				X	X				
1.12		1.12		Common Support Equipment				X	N/A				
1.13		1.13		Operational/Site Activation				X	X	X			
1.14		1.14		Industrial Facilities				X	X	X			
1.15		1.15		Initial Spares and Repair Parts				X	X	X			
				Subtotal Cost					X				
				Reporting Contractor G&A					X				
				Reporting Contractor Undistributed Budget					X				
				Reporting Contractor Management Reserve					X				
				Reporting Contractor FCCM					X				
				Total Cost					X				
				Reporting Contractor Profit/Loss or Fee					X				
				Total Price					X				

Metadata (Blocks 1-10)

Data Reporting Structure (Blocks 11-12)

Reports Required (Block 13)



DD Form 2794 (Page 2)

OSD CAPE

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

Submission Events
(Block 14)

14. CSDR SUBMISSION DATES				
a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)
1	CWBS Dictionary	CWBS Dictionary - Lot 4 Completion	20151130	20160130
2	1921, 1921-1	Lot 4 Completion: Final Report	20151130	20160130
3	1921, 1921-1	Lot 5 Completion: Final Report	20161130	20170130
4	1921, 1921-1	Lot 6 Completion: Final Report	20171130	20180130

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 list the number of missiles produced prior to Lot 4, including FMS units in the Remarks section of the 1921 report.

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. 0704-0188		
<p>This public reporting burden for the 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> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.</p>							
1. MAJOR PROGRAM a. NAME: JAZZ-49 - Air-to-Air Missile		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
b. PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input checked="" type="checkbox"/> C-FRP <input type="checkbox"/> C-LRIP <input type="checkbox"/> O&S		6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP Code) John Doe 121 Fake St Patuxent River, MD 12345		6b. TELEPHONE NUMBER (Include Area Code) 301-555-5555	6c. FAX NUMBER (Include Area Code) 301-555-5555	6d. E-MAIL ADDRESS john.doe@navy.mil	
7. PLAN TYPE <input type="checkbox"/> PROGRAM <input checked="" type="checkbox"/> CONTRACT (PRIME) <input type="checkbox"/> CONTRACT (SUB)	8. PREPARING ORGANIZATION Air-to-Air Missiles PMA-259	9a. CONTRACTOR NAME/ADDRESS i. PERFORMING ORGANIZATION: Fake Company ii. DIVISION: Missiles and Fire Control 1151 E Fake St Tucson, AZ 12345		9b. CONTRACT NUMBER XXXXX-YY-X-XXXX	9c. APPROPRIATION <input type="checkbox"/> RDT&E <input checked="" type="checkbox"/> PROCUREMENT <input type="checkbox"/> O&M		10. APPROVED PLAN NUMBER N-11-E-C1(R)

All Plans

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

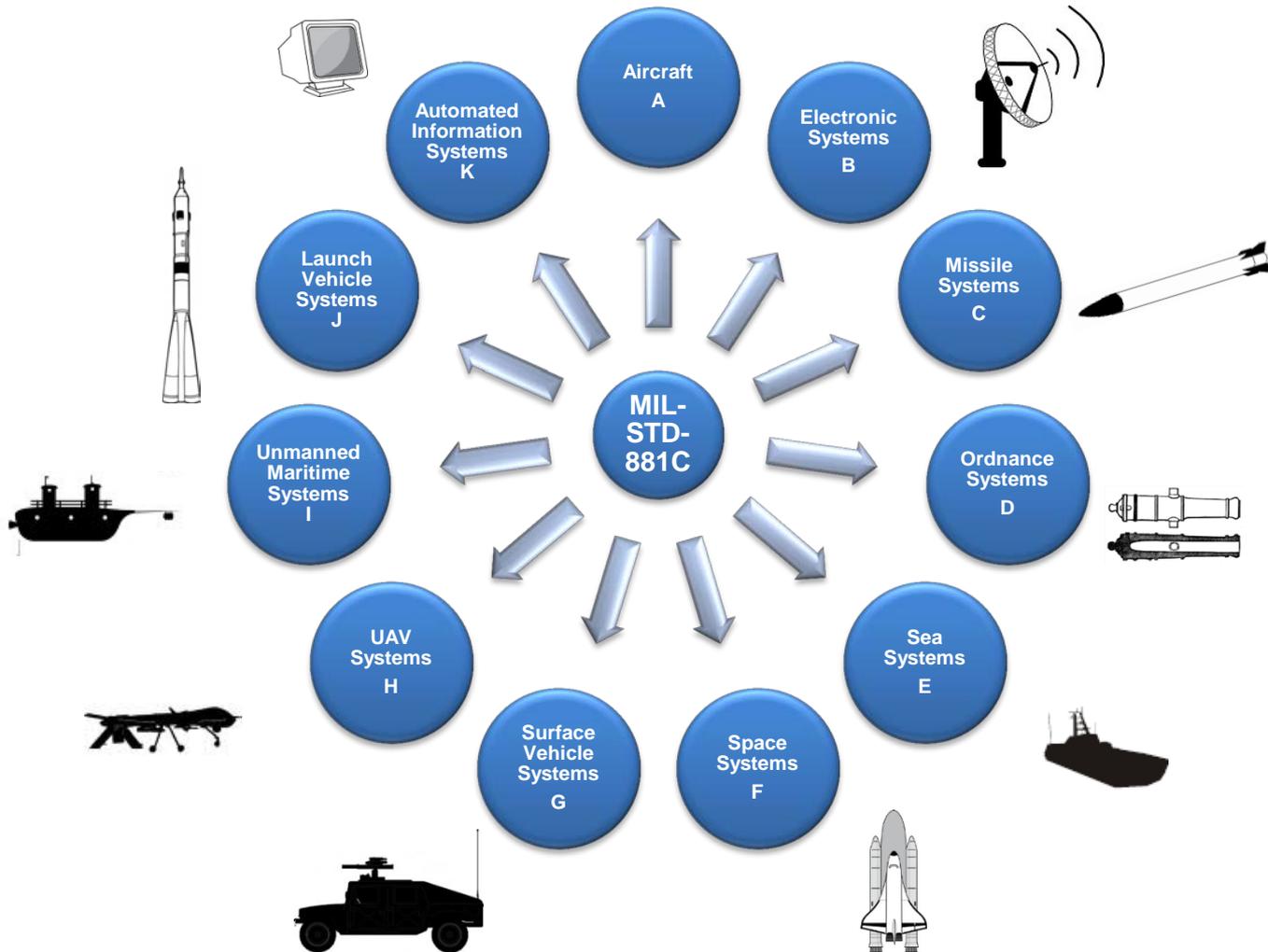
Metadata is the data that explains all other data reported



MIL-STD-881C Appendices

OSD CAPE

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





MIL-STD-881C Implementations

OSD CAPE

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

Product-oriented elements (shown to Level 3)

Appendix C: Missile Systems

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



MIL-STD-881C Implementations

Appendix L: Common Elements

OSD CAPE

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

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

Appendix L: Common Elements



Using “Other” Elements

OSD CAPE

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

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

MIL-STD-881C Appendix A

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

Implementation

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

1...n Construct for independent components

MIL-STD-881C Appendix A

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

Implementation

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

Data Reporting Structure Rules and Conventions

OSD CAPE

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

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

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



Blocks 11 – 12: Data Reporting Structure

OSD CAPE

11. WBS ELEMENT CODE		12. WBS REPORTING ELEMENTS
a. PROGRAM/ CONTRACT/ SUBCONTRACT	b. CONTRACT/ SUBCONTRACT	
1.0	1.0	JAZZ-49 - Air-to-Air Missile
1.1	1.1	Air Vehicle
1.1.1	1.1.1	Airframe
1.1.2	1.1.2	Propulsion Subsystem
1.1.3	1.1.3	Power and Distribution
1.1.4	1.1.4	Guidance
1.1.4	1.1.4.1	Guidance (Unique)
1.1.4	1.1.4.2	Guidance (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
1.1.9	Air Vehicle Integration, Assembly, Test and Checkout
1.2	Systems Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts



Program/Contract Relationship

OSD CAPE

Program Data Reporting Structure

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

Contract Data Reporting Structure

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

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



Prime/Subcontract Relationship

OSD CAPE

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

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

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

REPORTING ELEMENT CODE	REPORTING ELEMENTS
1.0	Electronic System -- XYZ Radar
1.1	Radar System
1.1.1	Antenna
1.1.2	Radar Electronics
1.1.3	Power Supply
1.1.4	Power Conditioner
1.1.5	Rack/Structure
1.1.6	Radar Software
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	CWBS Dictionary - Lot 4 Completion	20151130	20160130
2	1921, 1921-1	Lot 4 Completion: Final Report	20151130	20160130
3	1921, 1921-1	Lot 5 Completion: Final Report	20161130	20170130
4	1921, 1921-1	Lot 6 Completion: Final Report	20171130	20180130

Program Plan

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

Contract/Subcontract Plan

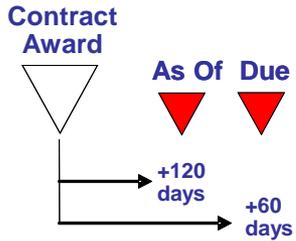
- Lists submission events for the contract/subcontract
- Contain required forms and report types
- As of dates represent the end date of the data (e.g., if Lot 4 is delivered 20151130, the data for the “Lot 4 Completion: Final Report” report will be as of this date)
- Due dates are 60 days after as of 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

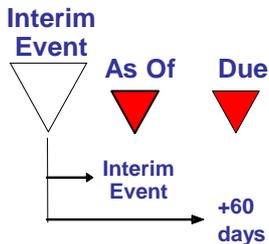
Initial Reporting



Initial Reports:

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

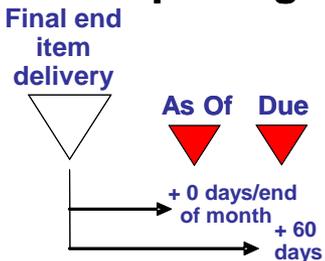
Interim Reporting



Interim Reports:

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

Final Reporting



Final Reports:

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

Contract Data Reporting Structure Dictionary is due with the first cost report (or earlier, to facilitate report planning) and when 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 Lots 4-6 was Firm Fixed Price (FFP) under a Procurement Price Commitment Curve (PPCC), Lots 4-6 were contracted with a single year sole source contracts to Fake Company.

3. Quantity Overview:

Lot 4: 500 units, Lot 5: 500 units, Lot 6: 700 units



Block 15: Remarks

OSD CAPE

Contract/Subcontract Plan

- Includes DCARC standard instructions:

a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)
1		Dictionary - Lot 4 Completion	20151130	20160130
2	1921, 1921-1	Lot 4 Completion: Final Report	20151130	20160130
3		Lot 5 Completion: Final Report	20161130	20170130
4		Lot 6 Completion: Final Report	20171130	20180130

- Explanation of accounting changes
- 1921-3 requirement
- 1921-2 requirements if necessary (technical characteristics and reporting by unit or lot)
- Additional directives per the CWIPT 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 list the number of missiles produced prior to Lot 4, including FMS units in the Remarks section of the 1921 report.

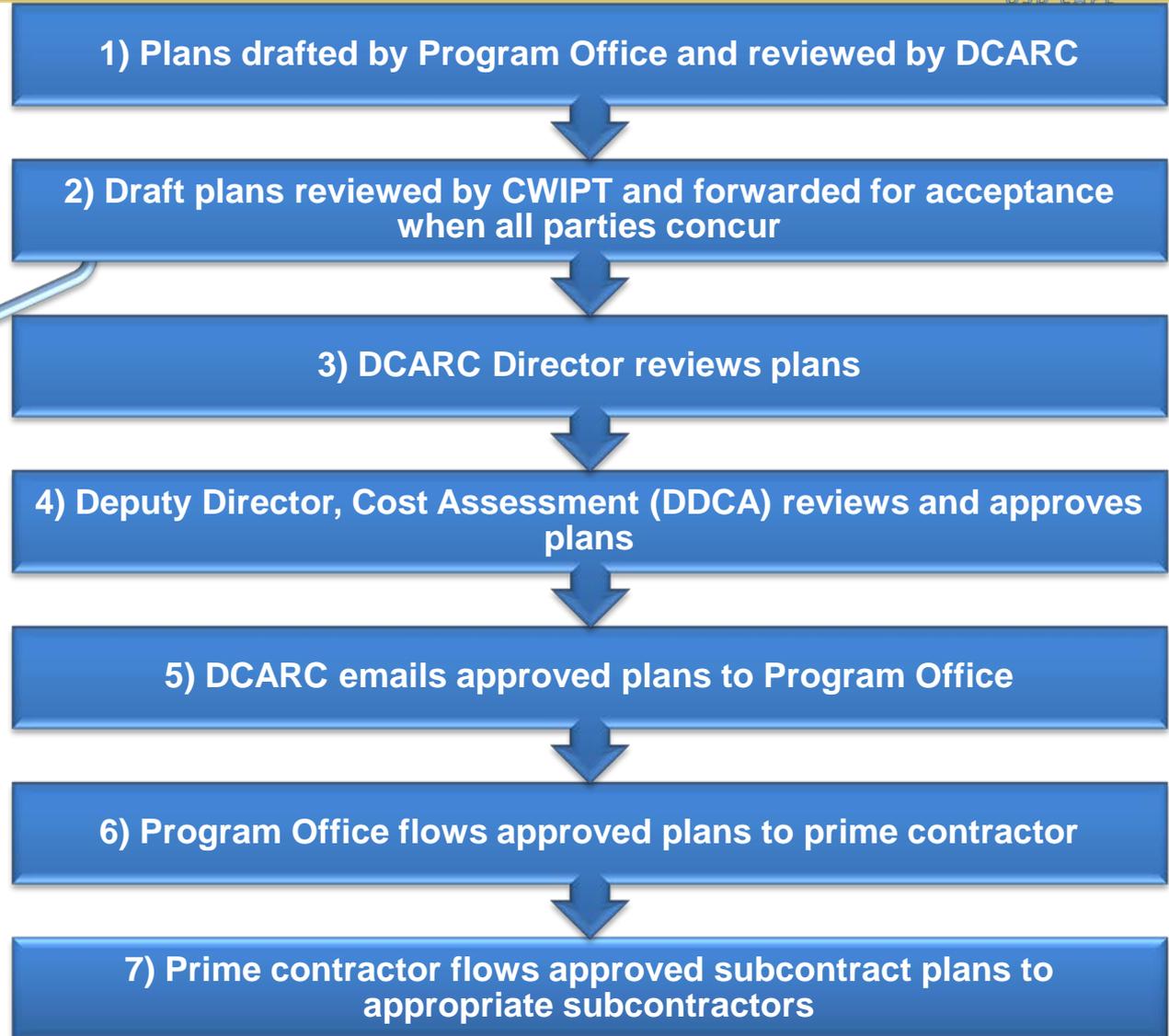
Remarks allow the CWIPT freedom to request additional information that increases report utility



Plan Approval Process

OSD CAPE

If the CWIPT cannot reach an agreement, the issues will be presented to the DCARC Director for resolution





Formal Plan Revisions

OSD CAPE

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

Revision Required

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

Changes to report frequency or report types

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

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

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

Formal Revision Not Required

The following changes are made administratively by the DCARC:

Changes to submission event dates

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

Changes to element applicability

Adding a Contractor Name and Contract Number after award



CSDR Plan Approval Documentation

OSD CAPE

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

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



Challenges in CSDR Plan Development

OSD CAPE

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



CSDR Plan Summary

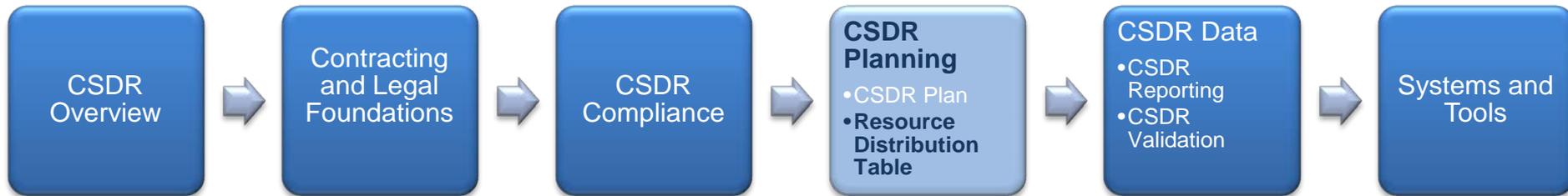
OSD CAPE

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



CSDR Planning: Resource Distribution Table

OSD CAPE





Resource Distribution Table (RDT)

OSD CAPE

What is the purpose of a Resource Distribution Table?

- RDTs are designed to provide an overview of a program or contract's costs by contractor/ organization and data reporting elements
 - **Program RDT** - Identifies total dollar values and software dollar values for a program in a particular phase
 - **Contract RDT** - Identifies a single contract's associated total and software dollar values
- Developed by the Government Program Office and prime contractor(s)

If no longer current, prime contractors must provide an updated Contract RDT with next affected 1921 report



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)



Program RDT Example

OSD CAPE

Provides an overview of where funding on a program is being spent

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	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	Program Office + Prime + GFE + Field Office
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	\$3.0		\$5,418.0
Subtotal Software Contract Value (Estimated), TYSM	\$0.0	\$150.0	\$0.0	\$300.0	\$12.0	\$5.0	\$0.0	\$15.0		\$482.0
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	
WBS NUMBERS	WBS Element Name									
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							
1.3	Program Management		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" indicates that a company is producing a given element, blank indicates no costs are associated with the element



Contract RDT Example

OSD CAPE

Total Contract RDT Dollar Value reconciles with contract value

Prime Contractor or Sub-Contractor	Prime Contractor		1st Tier Subcontractors			2nd/3rd Tier 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), TYSM	\$2,500.0	\$1,622.0	\$878.0	\$370.0	\$130.0	\$75.0
Subtotal Software Contract Value (Estimated), TYSM	\$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			
	L1	L2	L3	L4
1.0	Aircraft System			
1.1		Air Vehicle		
1.1.1			Airframe	
1.1.1.1				Airframe IAT&C
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
1.1.2			Propulsion	
1.1.3			Vehicle Subsystems	
1.1.4			Avionics	
1.1.4.1				Avionics IAT&C
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
1.1.4.12				Avionics Software Release
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			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

Insight may be needed for 2nd and 3rd tier subcontractors to understand who is doing what work



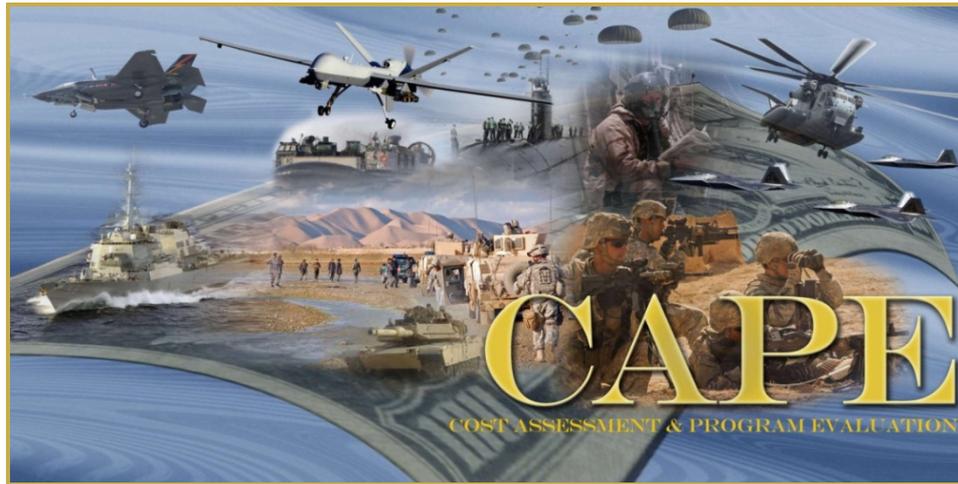
RDT Summary

OSD CAPE

- RDTs are essential to:
 - Understand where program and contract dollars are being spent
 - Identify who is doing what work

cPet Desktop Demo

CSDR Plans and RDTs





cPet Desktop and Web

OSD CAPE

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

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

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



cPet Plan and RDT Development

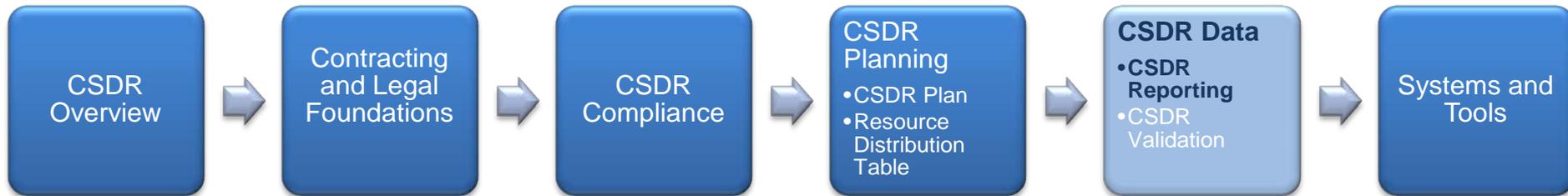
OSD CAPE

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



CSDR Data: CSDR Reporting

OSD CAPE





CSDR Reporting

OSD CAPE

What types of reports are available through DCARC?



Contractor Cost Data Report

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

Software Resource Data Report

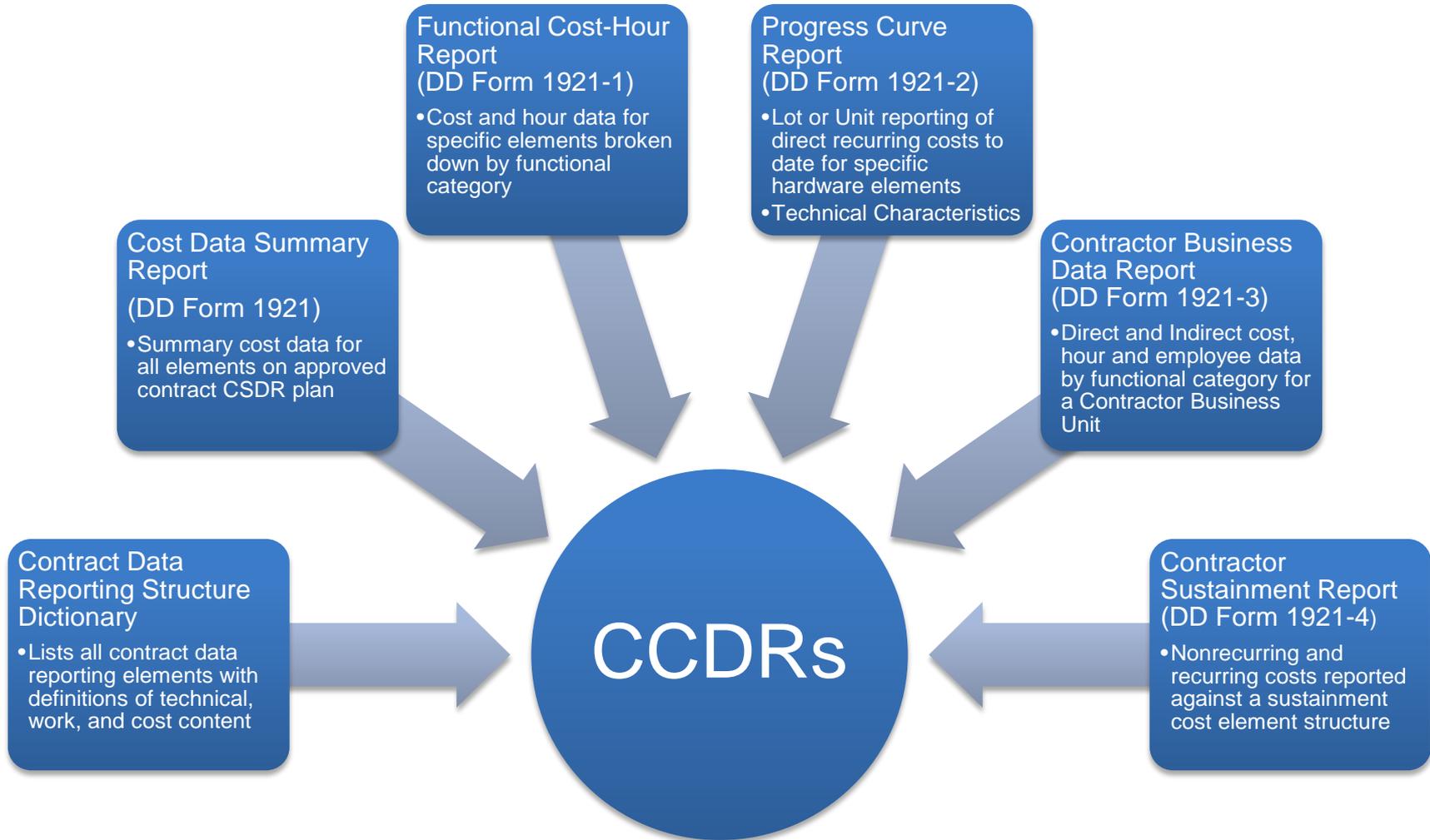
- Initial Developer Report
- Final Developer Report

Cost and Software Data Report



CCDR Reporting

OSD CAPE





SRDR Reporting

OSD CAPE

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





Data Item Descriptions (DIDs)

OSD CAPE

What are the instructions for each of the reports?

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

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

Contract Data Reporting Structure Dictionary

OSD CAPE

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

Contract Data
Reporting Structure
Index

Contract Data
Reporting Structure
Dictionary

Contract Data Reporting Structure Dictionary

OSD CAPE

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



Contract Data Reporting Structure Index Example

Metadata

Contract Work Breakdown Structure Index		Program: Vector Surface to Air Interceptor		RFP No: XXXX	Contract Plan No.: A-10-X-C1	
				Contract No: DAAE07-XX-E-0001	Date: 9/26/2012	
				Point of Contact: Erin Bell (310) 555-9461 ebell@company.com		
CWBS Code	CWBS ELEMENT					CWBS ELEMENT NAME
	LEVEL					
	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	
	<u>CWBS ELEMENT NAME</u>	<u>CWBS DEFINITION</u>		
1.0	Vector Surface to Air Interceptor	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".		
1.1	Air Vehicle	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.		
1.1.1	Airframe	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.		
1.1.2	Propulsion Subsystem	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.		

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 actual costs incurred and estimates at completion

Contract Totals

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

Number of units for all hardware elements

DD Form 1921-1

Select elements reported

Nonrecurring and recurring actual costs incurred and estimates at completion

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

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

DD Form 1921-2

Select hardware elements reported by unit or lot

Technical Characteristics

Direct recurring actual costs incurred

Detailed breakout of material and direct labor costs & hours

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

Cost Data Summary Report (DD Form 1921)

OSD CAPE

- Key Characteristics

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



Cost Data Summary Report (DD Form 1921)

UNCLASSIFIED

OSD CAPE

SECURITY CLASSIFICATION Unclassified

COST DATA SUMMARY REPORT

Form Approved
OMB No. 0704-0188

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

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

2. PRIME MISSION PRODUCT

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

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

5. APPROVED PLAN NUMBER

6. CUSTOMER (Direct-reporting subcontractor use only)

7. CONTRACT TYPE

8. CONTRACT PRICE

9. CONTRACT CEILING

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

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

12. APPROPRIATION
 RDT&E PROCUREMENT O&M

13. REPORT CYCLE
 INITIAL INTERIM FINAL

14. SUBMISSION NUMBER

15. RESUBMISSION NUMBER

16. REPORT AS OF (YYYYMMDD)

17. NAME (Last, First, Middle Initial)

18. DEPARTMENT

19. TELEPHONE NUMBER (Include Area Code)

20. E-MAIL ADDRESS

21. DATE PREPARED (YYYYMMDD)

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

22. REMARKS

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

Metadata
(Blocks 1 -21)

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
 - Initial, interim, and final submissions due at pre-determined intervals from the approved plan
 - The DD Form 1921-1 is a standard form that cannot be altered by the contractor:
(<http://dcarc.cape.osd.mil/CSDR/FormsReporting.aspx#DIDs>)
 - The 1921-1 reports must be submitted as a DCARC approved XML file
 - cPet can convert an Excel DD Form 1921-1 to the XML schema, or DCARC approved XML schemas are available:
(<http://dcarc.cape.osd.mil/CSDR/cPet.aspx>)
 - Current 1921-1 DID: DI-FNCL-81566C



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

UNCLASSIFIED

OSD CAPE

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

Metadata
(Blocks 1 – 19, 21)

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

Remarks
(Block 22)

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

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

UNCLASSIFIED



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"> • Prices associated with subcontractors that submit CSDRs to the DCARC 	
Other Costs		<ul style="list-style-type: none"> • Other direct costs, security, royalty, license fees, transportation, preservation, packaging, and applicable Federal excise tax 	



Progress Curve Report (DD Form 1921-2)

OSD CAPE

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



Progress Curve Report (DD Form 1921-2)

OSD CAPE

Metadata
(Blocks 1 – 21)

SECURITY CLASSIFICATION Unclassified		PROGRESS CURVE REPORT			Form Approved OMB No. 0704-0188	
The public reporting burden for this collection of information is estimated to average 16 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.						
1. MAJOR PROGRAM a. NAME: PHASE/MILESTONE <input type="checkbox"/> Pre-A <input type="checkbox"/> B <input type="checkbox"/> C-LRP <input type="checkbox"/> A <input type="checkbox"/> C-LRP		2. PRIME MISSION PRODUCT <input type="checkbox"/> C-FRP <input type="checkbox"/> O&S	3. REPORTING ORGANIZATION TYPE <input type="checkbox"/> PRIME / ASSOCIATE CONTRACTOR <input type="checkbox"/> DIRECT-REPORTING SUBCONTRACTOR <input type="checkbox"/> GOVERNMENT		4. NAME/ADDRESS (Include ZIP Code) a. PERFORMING ORGANIZATION b. DIVISION	
5. APPROVED PLAN NUMBER		6. CUSTOMER (Direct-Reporting Subcontractor Use Only)	7. TYPE ACTION a. CONTRACT NO.: b. LATEST MODIFICATION	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

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

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

2. PRIME MISSION PRODUCT

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

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

5. APPROVED PLAN NUMBER

6. CUSTOMER (Direct-Reporting Subcontractor Use Only)

7. TYPE ACTION
a. CONTRACT NO.: b. LATEST MODIFICATION: c. SOLICITATION NO.: 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 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.**

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

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

RESUBMISSION NUMBER **12. REPORT AS OF (YYYYMMDD)**

E-MAIL ADDRESS **17. DATE PREPARED (YYYYMMDD)**

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)

A4

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 ongoing 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 and indirect costs and rates for engineering, manufacturing operations and material
 - 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>)
 - cPet can convert an Excel DD Form 1921-3 to the XML schema, or DCARC approved XML schemas are available:
(<http://dcarc.cape.osd.mil/CSDR/cPet.aspx>)
 - Current 1921-3 DID: DI-FNCL-81765B



DD Form 1921-3 Page One

OSD CAPE

SECURITY CLASSIFICATION _____

CONTRACTOR BUSINESS DATA REPORT

Form Approved
OMB No. 0704-0188

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

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

Overhead Accumulation, Distribution, and Application

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

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

Metadata
(Blocks 1-11)

Direct Cost
by Program
(Section A)

Indirect
Cost
Categories
(Section B)



DD Form 1921-3 Page Two

OSD CAPE

SECURITY CLASSIFICATION _____

CONTRACTOR BUSINESS DATA REPORT - PAGE 2

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

Facility-wide Specifics (Section C)

Direct Labor Rates (Section D)

Total Sales (Section E)

Organizational & Accounting Changes (Section F)

Remarks



Contractor Sustainment Report (Formerly DD Form 1921-4) Implementation

OSD CAPE

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



1921 Sustainment Reporting

OSD CAPE

WBS ELEMENT CODE A	WBS REPORTING ELEMENTS B	NUMBER OF UNITS TO DATE C	COSTS INCURRED TO DATE (thousands of U.S. Dollars)			NUMBER OF UNITS AT COMPLETION G	COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars)		
			NONRECURRING D	RECURRING E	TOTAL F		NONRECURRING H	RECURRING I	TOTAL J
1.0	Sustainment Effort								
1.1	Unit-Level Manpower (System Level Cost Only)								
1.1.1	Operations Manpower								
1.1.2	Unit-Level Maintenance Manpower								
1.1.3	Other Unit-Level Manpower (Specify in Remarks)								
1.2	Unit Operations (System Level Cost Only)								
1.2.1	Operating Material								
1.2.1.1	Energy (Fuel; Petroleum, Oil, And Lubricants (POL); Electricity)								
1.2.1.2	Training Munitions/Expendable Stores								
1.2.1.3	Other Operating Material (Specify in Remarks)								
1.2.2	Support Services (Including Non-Maintenance FSRs)								
1.2.3	Temporary Duty								
1.3	Maintenance								
1.3.1	Overhaul of End Items								
1.3.1.1	Scheduled Overhaul								
1.3.1.1.1	Vehicle Overhaul								
1.3.1.1.2	Propulsion Overhaul								
1.3.1.1.3	Other Overhaul								
1.3.1.2	Unscheduled Overhaul								
1.3.1.2.1	Vehicle Overhaul								
1.3.1.2.2	Propulsion Overhaul								
1.3.1.2.3	Other Overhaul								
1.3.2	Depot Level Repairables (DLR) / Repair Of Repairables (ROR)								
1.3.3	Consumables and Repair Parts								
1.3.4	Other Maintenance Services (Including FSRs) (Explain in Remarks)								
1.3.4.1	O-Level Maintenance Services								
1.3.4.2	I-Level Maintenance Services								
1.3.4.3	Depot Level Maintenance Services								
1.3.5	Packing, Handling, Shipping and Transportation								
1.4	Sustaining Support (System Level Cost Only)								
1.4.1	System Specific Training								
1.4.1.1	Operator Training								
1.4.1.2	Maintenance Training								
1.4.1.3	Other Training								
1.4.2	Support Equipment Replacement								
1.4.3	Sustaining/Systems Engineering								
1.4.3.1	Reliability and Maintainability Engineering								
1.4.3.2	Logistics Engineering (LSA Updates, Logistics Analysis)								
1.4.3.3	Supply Analysis Efforts								
1.4.3.4	Safety/Human Systems Integration Engineering								
1.4.3.5	Affordability Engineering								
1.4.3.6	Obsolescence Engineering								
1.4.3.7	Availability Management								
1.4.3.8	Product Engineering Support								
1.4.3.9	Information Assurance								
1.4.3.10	Configuration Management								
1.4.3.11	System Performance Analysis								
1.4.3.12	Supply								
1.4.3.13	Data Analysis								
1.4.3.14	Physical Security								

Sustainment Cost Element Structure

- 1.4.4 Program Management
 - 1.4.4.1 Contractor Logistics Support (CLS) Management
 - 1.4.4.2 CLS Supply Management
 - 1.4.4.3 Financial/Schedule Planning and Reporting
 - 1.4.4.4 Transition to Lead Service
 - 1.4.4.5 Quality Assurance (Program Level)
 - 1.4.4.6 Administrative Security
 - 1.4.4.7 Transition to Performance Based Logistics (Pbl)
 - 1.4.4.8 Risk Mitigation
- 1.4.5 Information Systems
 - 1.4.5.1 Tech Refresh
 - 1.4.5.2 License Fees
- 1.4.5.3 Maintenance
 - 1.4.6 Data and Technical Publications
 - 1.4.7 Simulator Operations
 - 1.4.7.1 Simulator Operations Hardware Support
 - 1.4.7.2 Simulator Operations Manpower
 - 1.4.7.3 Simulator Tech Refresh
 - 1.4.8 Other Sustaining Support (Specify in Remarks)
- 1.5 Continuing System Improvements
 - 1.5.1 Hardware Modifications or Modernization
 - 1.5.1.1 Mod Kit Development
 - 1.5.1.2 Mod Kit Procurement
 - 1.5.1.3 Mod Kit Initial Spares
 - 1.5.1.4 Mod Kit Installation
 - 1.5.2 Software Maintenance or Modification
 - 1.6 Installation and Personnel Support (System Level Only)

Summary Elements

- Subtotal Cost
- Reporting Contractor G&A
- Reporting Contractor Undistributed Budget
- Reporting Contractor Management Reserve
- Reporting Contractor FCCM
- Total Cost
- Reporting Contractor Profit/Loss or Fee
- Total Price

22. REMARKS



CSDR Reporting Summary

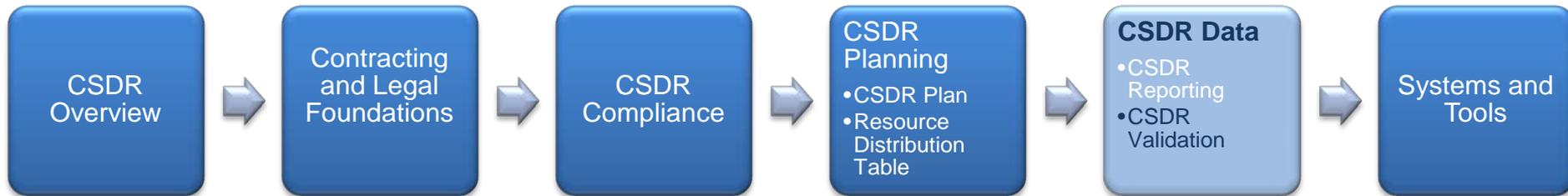
OSD CAPE

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



CSDR Data: CSDR Validation

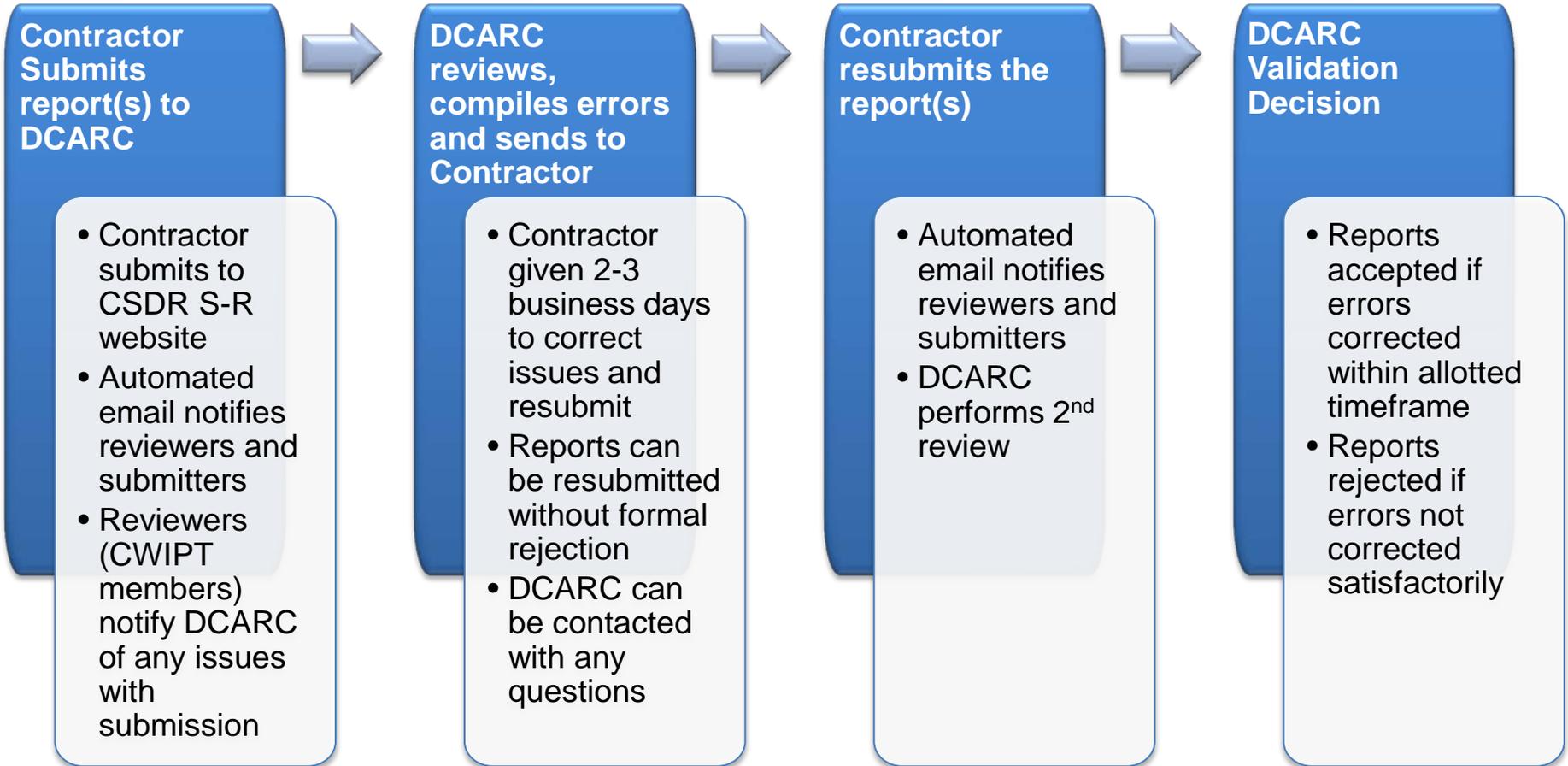
OSD CAPE





Validation Process

OSD CAPE



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



Dictionary Validation Checks

OSD CAPE

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



CCDR Validation Process: cPet Automated Checks

OSD CAPE

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



CCDR Validation Process

Manual Checks

OSD CAPE

- All metadata is reported accurately
- Number of Units to date and at completion reported for all hardware and integration, assembly, test & checkout elements with recurring costs
- Nonrecurring and recurring costs reported discretely by WBS element and functional cost category
- Costs reported to date on annual reports increase from prior reports
- Appropriate and accurate explanations in Remarks sections for:
 - DID requirements (accounting changes since last report, relevant information for understanding report data)
 - Anomalies (to date > estimate at completion, 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
- Units reported for hardware elements with recurring costs
- Metadata and units match among report types

1921 Report

- All elements included from plan
- Costs reported for G&A, FCCM, and Profit
- Explanation if total price overruns or underruns contract price
- Nonrecurring and recurring costs reported discretely
- Final reports are \geq 95% complete and all major end items have been delivered (DD 250)

1921-1 Report

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

1921-2 Report

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

cPet assists in preparation of a successful submission

Program Office/CAPE/Component Cost Organization Validation Process

OSD CAPE

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

Contract Data Reporting Structure Dictionaries

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

CCDRs

- Data reflects CLINs, TOs/DOs or entire contract as necessary for estimating purposes
- Accurate and complete explanations
- Costs reported for all elements in scope
- Nonrecurring and recurring costs reported accurately
- Correct units reported for all hardware elements
- Product characteristics and functional breakdown validation
- Correct variant reporting



Program Office/CAPE/Component Cost Organization Communication

OSD CAPE

- Comments on the submissions can be provided to the DCARC through the CSDR S-R website
- Reviews should occur within five business days after submission to the CSDR S-R
- Inform DCARC if additional time is needed to review submissions

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



Validation Error Report

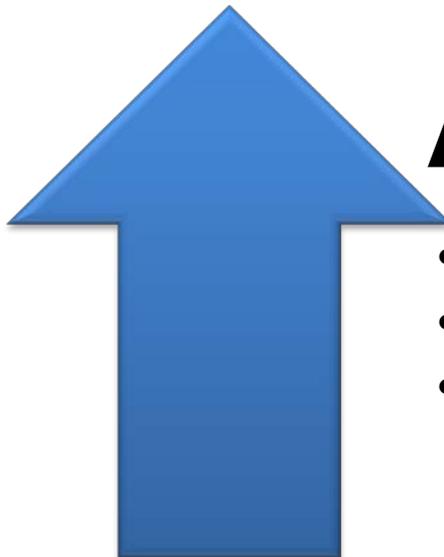
OSD CAPE

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



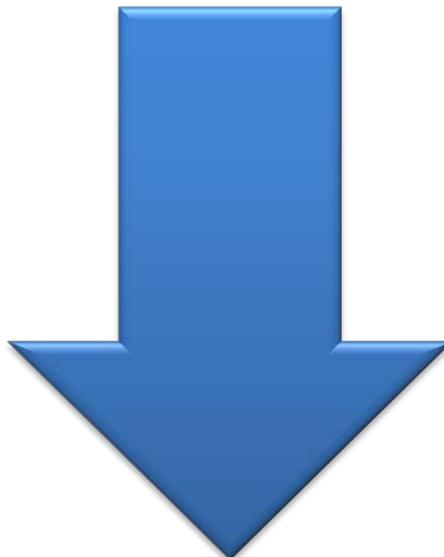
Accepted and Rejected Reports

OSD CAPE



Accepted

- Acceptance Memo distributed
- No further action required (unless data is found to be inaccurate)
- Reports stored in CADE



Rejected

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



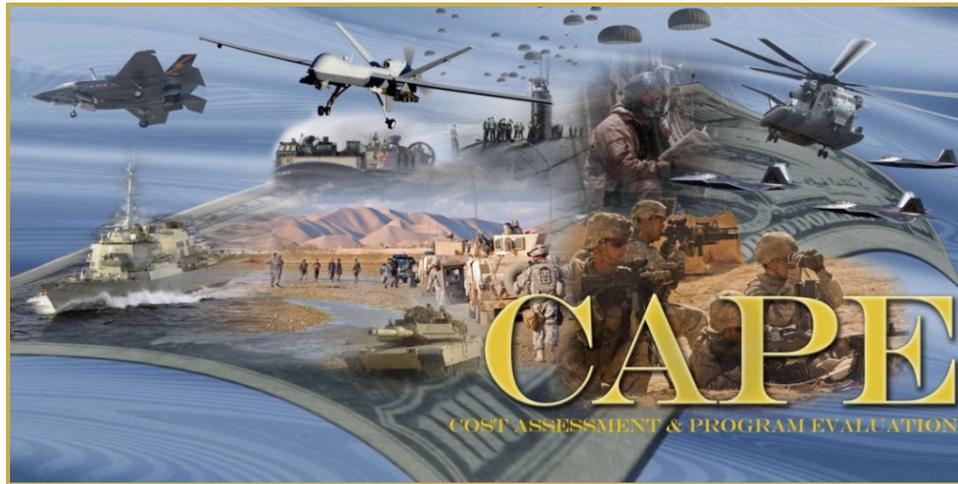
CSDR Validation Summary

OSD CAPE

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

cPet Desktop Demo

CSDR Validation





cPet Desktop for Data Providers

OSD CAPE

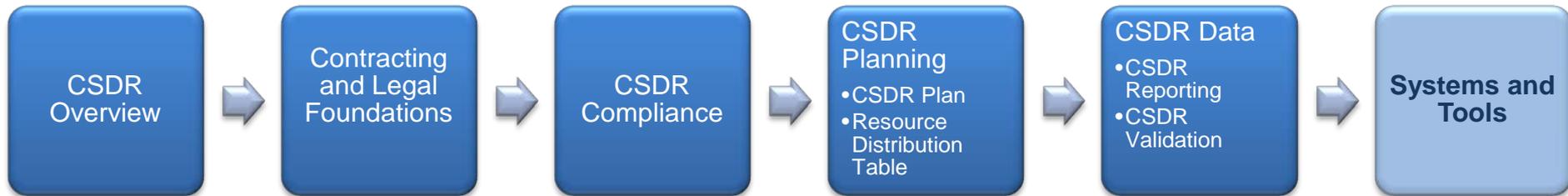
- cPet should be used by the contractor to prepare and check CCDRs for errors prior to submission
 - Generates DCARC XML files for submission from DD Form or Flat File Excel template
 - Validates 1921, 1921-1, 1921-2, and 1921-3 reports
 - Performs preliminary validations and displays errors for missing,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

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



Systems and Tools

OSD CAPE





Systems and Tools

OSD CAPE

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



Accessing CSDR System

OSD CAPE

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

DCARC Portal

Portal Login
Access to DACIMS, CSDR-SR, cPetWeb, 1921-3 & FPR

[Request Portal Access](#)

[Registration Instructions](#)

eRoom Login
Access to Plan Development Forum

[Request eRoom Access](#)

- 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”:

Account Actions

- [Change your password](#)
- [Update your profile](#)
- [Request application roles](#)
- [EVM-CR New Contract Form](#)
- [Transfer file\(s\) to the DCARC Help Desk](#)

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

CSDR S-R



OSD CAPE



Knowledge Portal

DCARC
CAPE

PORTAL HOME

CSDR-SR HOME

MY CSDR

UPLOAD HOME

SEARCH

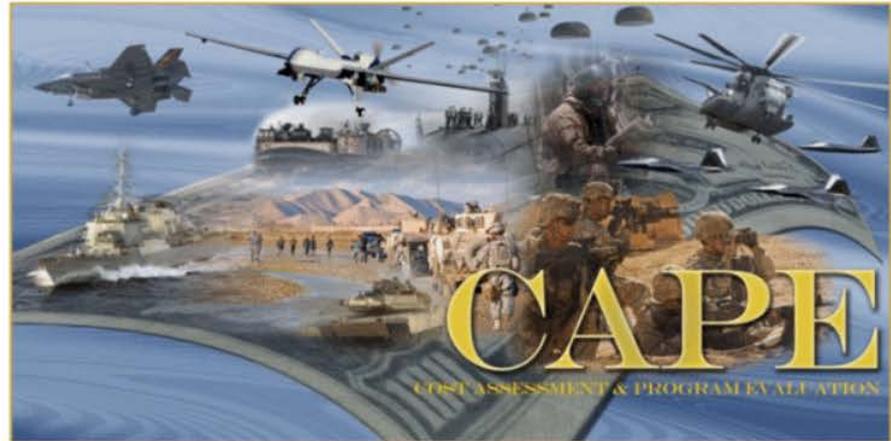
CONTACT US

Welcome to CSDR-SR

User Guides

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

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



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



CSDR S-R: Accessing CSDR plans

OSD CAPE

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

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

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

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

Submission Events

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

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

Contract Detail

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

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

Contract Summary

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



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

OSD CAPE

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

Contract Detail

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

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

Contract Tasks/Plans

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

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

Contract Tasks/Plans

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



Data Providers: cPet Desktop and Web

OSD CAPE

cPet Desktop & Web

Preparation and validation of cost reports prior to submission

- Excel Flat File
- DCARC XML Files
- Automated validation

CSDR S-R

Access list of upcoming, overdue, and finalized submissions

Submission and validation of reports

Data providers submit reports



cPet Desktop and Web

OSD CAPE

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

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

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



Excel Flat File

OSD CAPE

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

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

Metadata

Summary Elements and Remarks

Data Reporting Structure

1921 Data

1921-1 Data

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

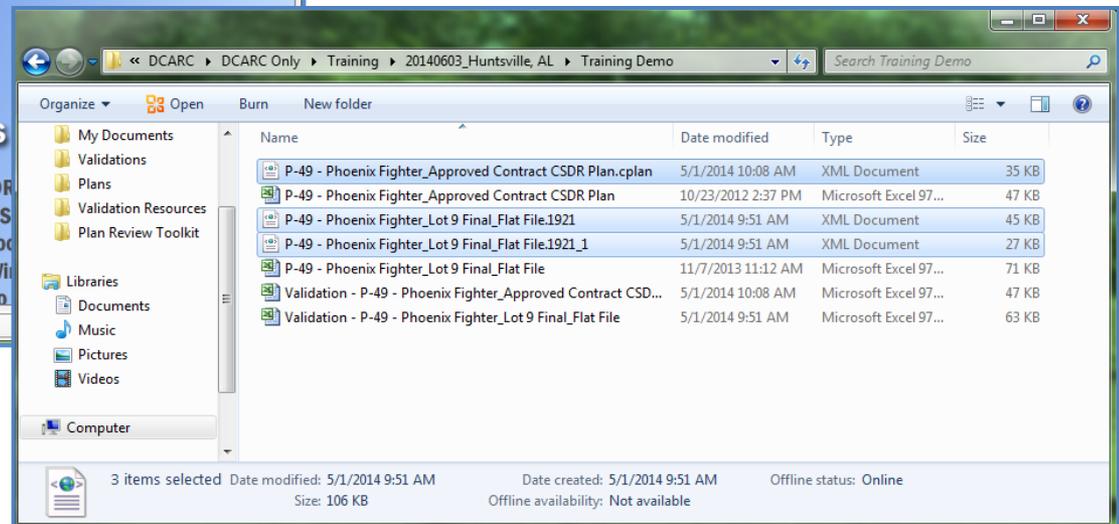
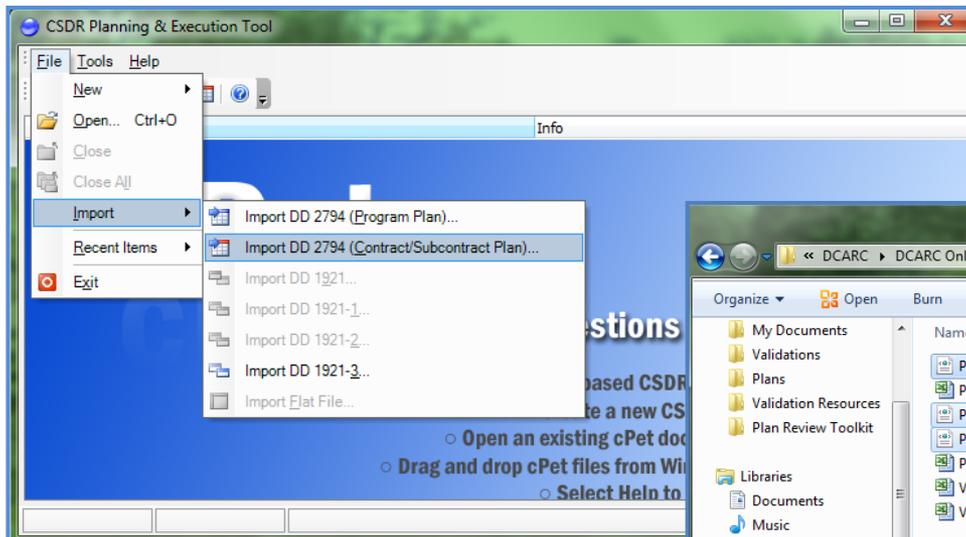
1921-2 Data

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

Preparing CCDR Submissions

OSD CAPE

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



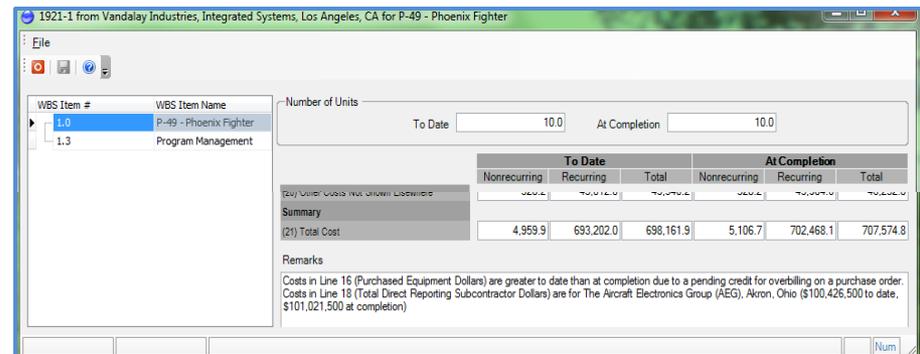
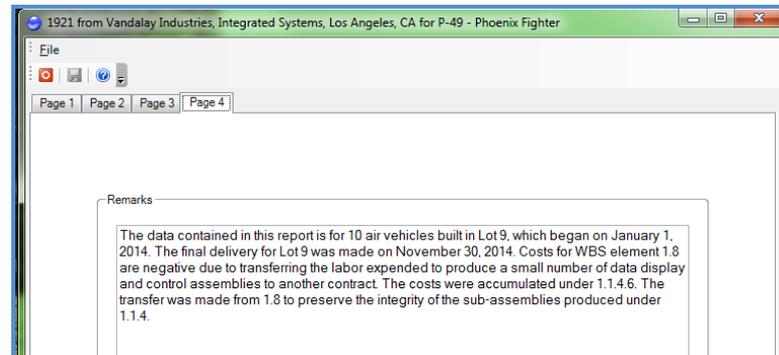
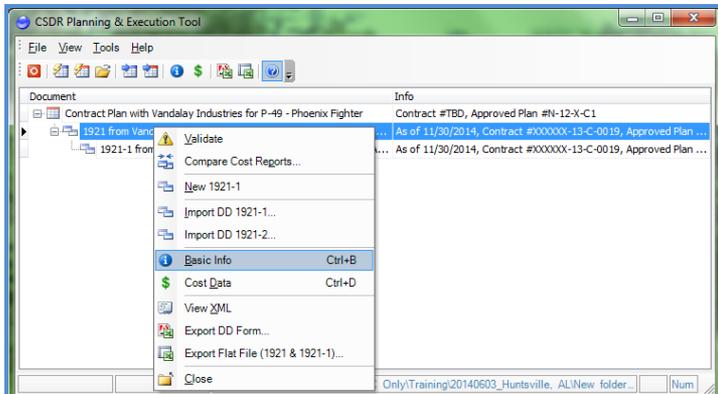
XML files must be submitted for *all* DD 1921 series reports contracted via the 2011 DIDs



Checking XML Files

OSD CAPE

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

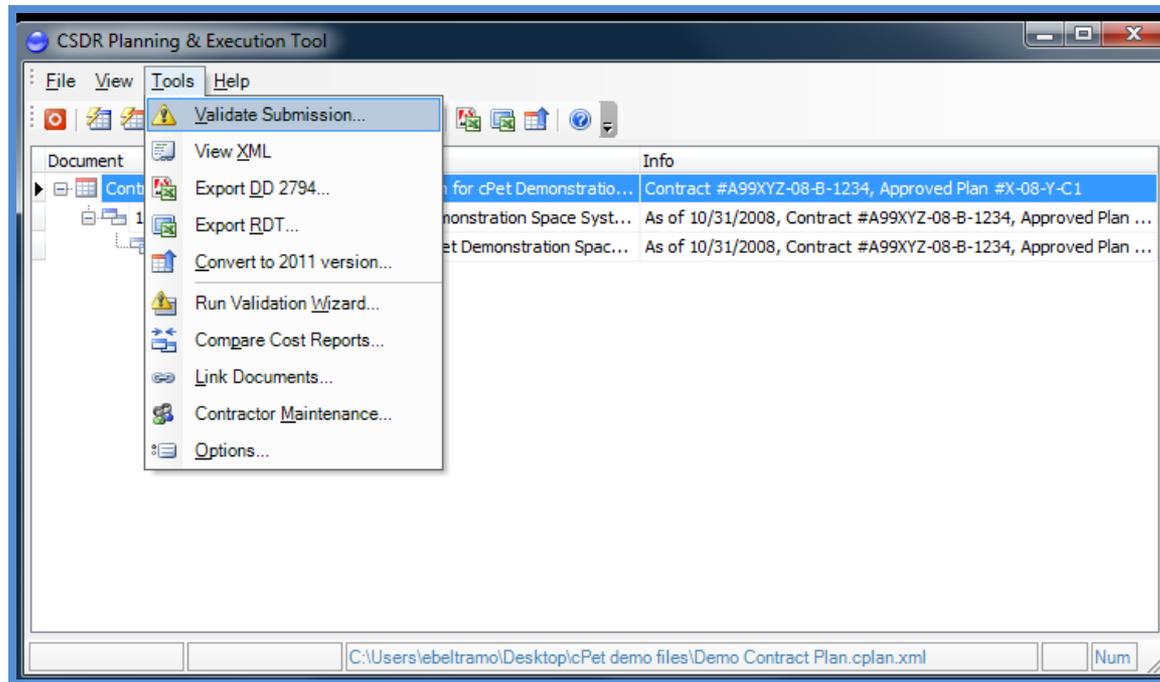


Validate submission to ensure all data is XML compliant

Validating CCDR Submissions

OSD CAPE

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





cPet errors about XML compliance

OSD CAPE

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



cPet Summary

OSD CAPE

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



Data Providers: CSDR S-R

OSD CAPE

cPet Desktop & Web

Preparation and validation of cost reports prior to submission

- Excel Flat File
- DCARC XML Files
- Automated validation

CSDR S-R

Access list of upcoming, overdue, and finalized submissions

Submission and validation of reports

Data providers submit reports



CSDR Submit-Review (CSDR S-R)

OSD CAPE

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

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



CSDR S-R: Submitter Role

OSD CAPE

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

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

Upload Home

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

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

Submission Events

Date Range:
 Program:
 Submission Stage:
 Contract:

No submission Events match the given criteria

Upload Home

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

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

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

Contract Number:

Plan Number:

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

OSD CAPE

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

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

Submission Event

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

Submission Details

As Of Date:

Status: Late

Comment:
 (Max 256 chr.)

Point of Contact Information

Name:

Phone:

Fax:

Email:

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

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

OSD CAPE

- Upload required reports

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

Submission Info
Files
Validation

Unclassified Documents Only

Required Files
 1921,1921-1

Select a file to Upload
 Caution: The total size of each file must be less than 30 mb.

Browse...

Please select a File Type. ▼

File Comment:

Upload

Uploaded Files

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

Back

Next

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



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

OSD CAPE

• Validate reports

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

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

Submission Info
Files
Validation

Select Validation Options

1921

1921-1

1921-2

Contract Plan Number

Group Reports & View Data
 Name Data Set:

Submission Event

Submission Event Number: 7

Submission Event Name: Lot 9 Completion

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

Working Files

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

The DCARC validation tool now supports Excel 2011 documents.

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

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

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



Submitters should look for instances of missing or partial data

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

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

Contract Data | **Report Data**

Report Name: Lot 9

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

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

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

NAME/ADDRESS

APPROVED

CUSTOMER

CONTRACT

CONTRACT

TYPE ACTIVITY

PERIOD OF

APPROPRI

REPORT C

SUBMISSION

REPORT AS OF (YY)

DATE PREPARED (YY)

Back Next

Engineering

(1) Direct En

(2) Direct En

(3) Engineer

(4) Total En

Manufacturing

(5) Direct To

(6) Direct To

(7) Direct To

(8) Direct Qu

(9) Direct Qu

(10) Direct M

(11) Direct M

(12) Manufac

(13) Total M

Materials

(14) Raw Ma

(15) Purchas

(16) Purchas

(17) Material

(18) Total Di

(19) Total M

Other Costs

(20) Other C

Summary

(21) Total Co

Remarks

Units/Lots Completed
 Unit Total Lot Total

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

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

OSD CAPE

• Submit reports

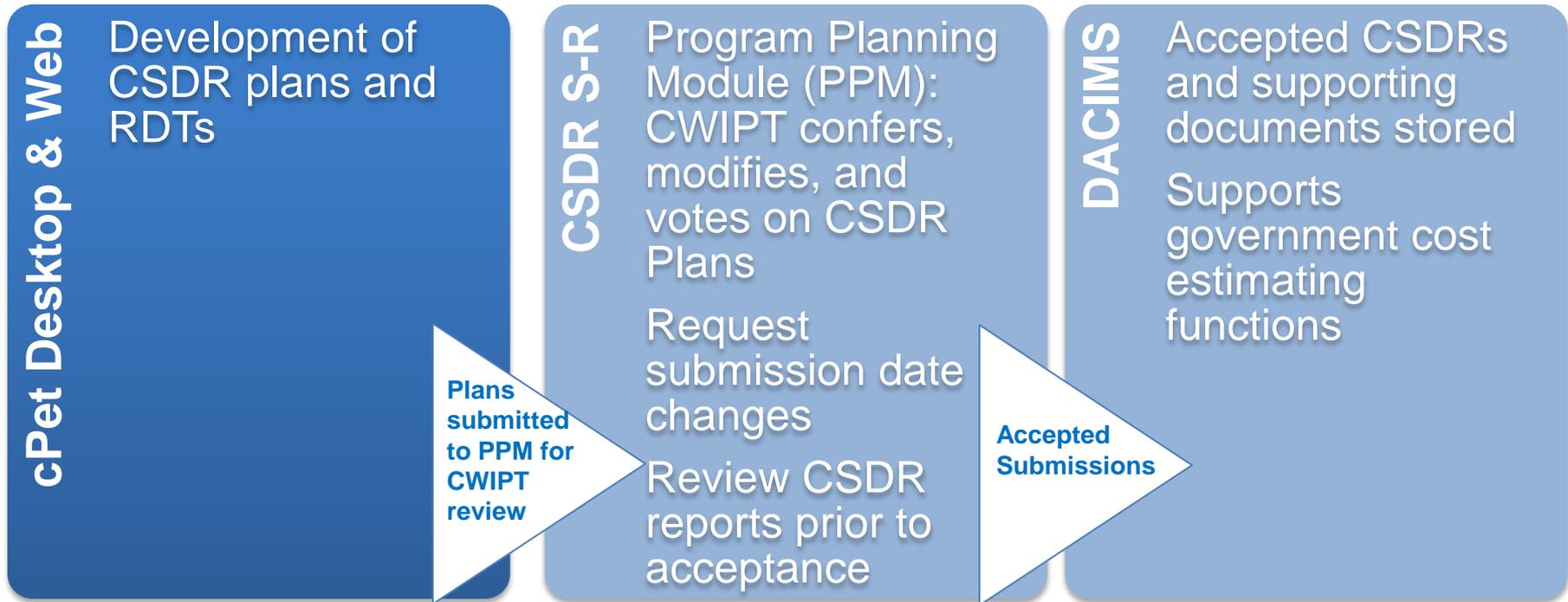
- Under “Submission Warnings” a message stating “All required files are present” should appear
- If files are missing, select the “Back” option to upload missing documents
- Click “Submit” to complete submission

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



Data Users: cPet Desktop and Web

OSD CAPE





Data Users: cPet Desktop and Web

OSD CAPE

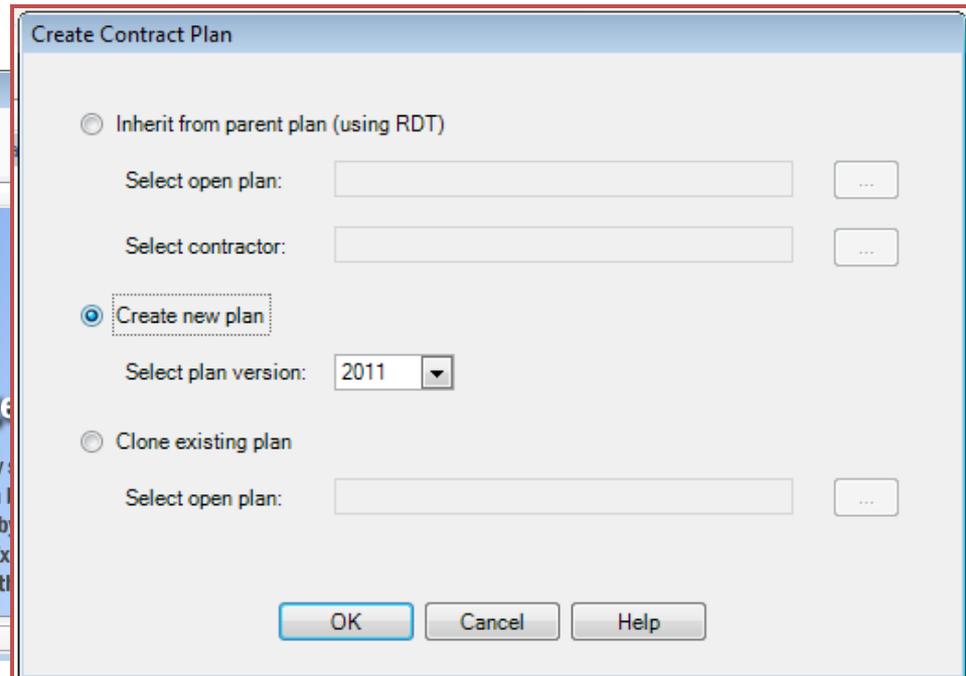
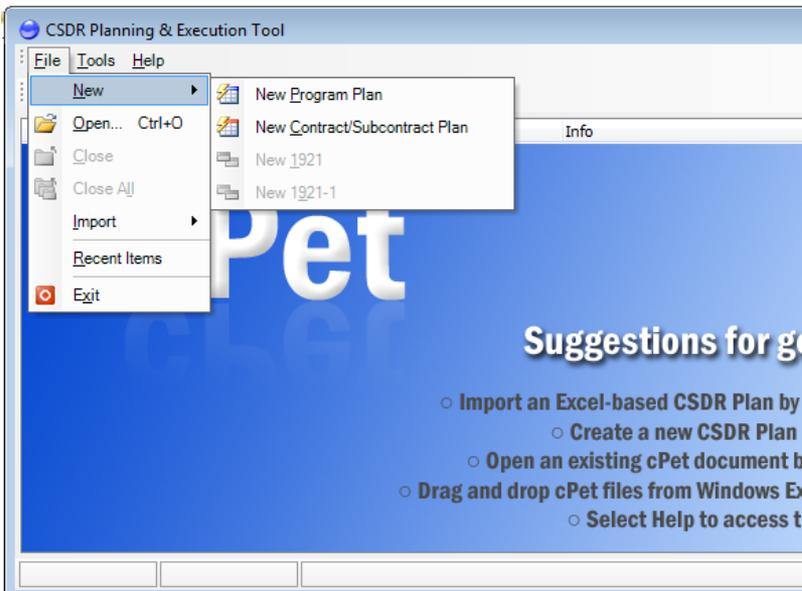
- cPet can be used by Program Offices to draft CSDR plans and RDTs
 - Uses MIL-STD-881C as a starting point for data reporting structures
 - Allows users to make new plans or modify existing plans
 - Ability to create RDTs



Drafting New CSDR Plans

OSD CAPE

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

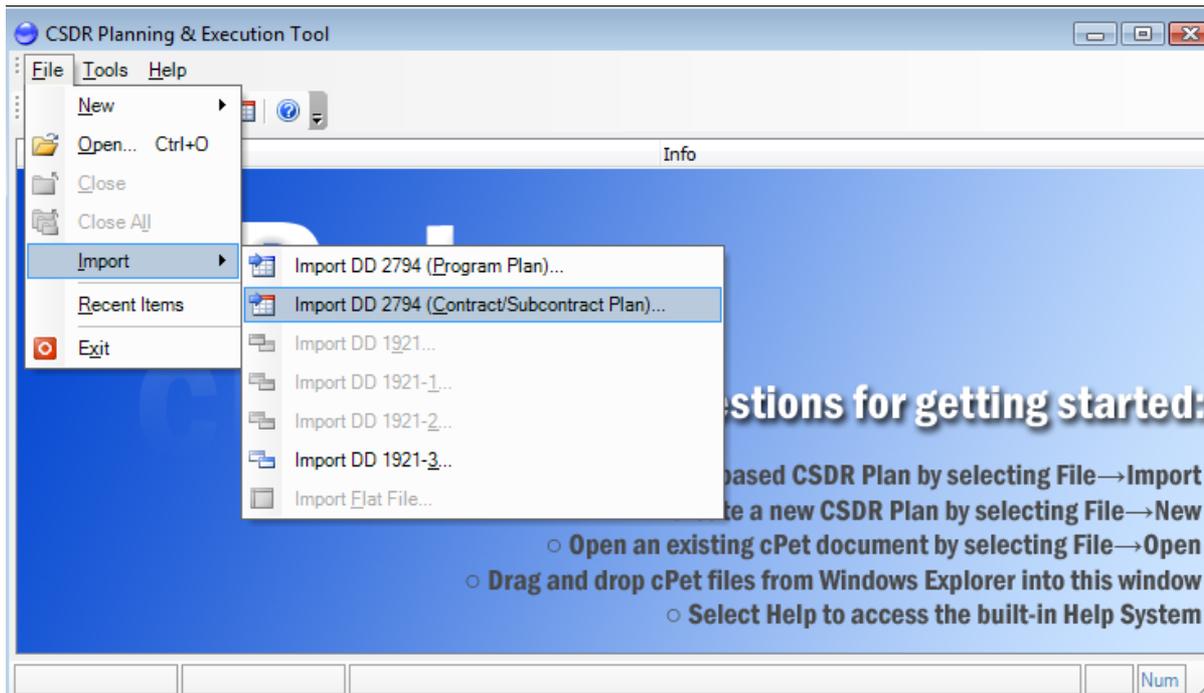




Revising CSDR Plans

OSD CAPE

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



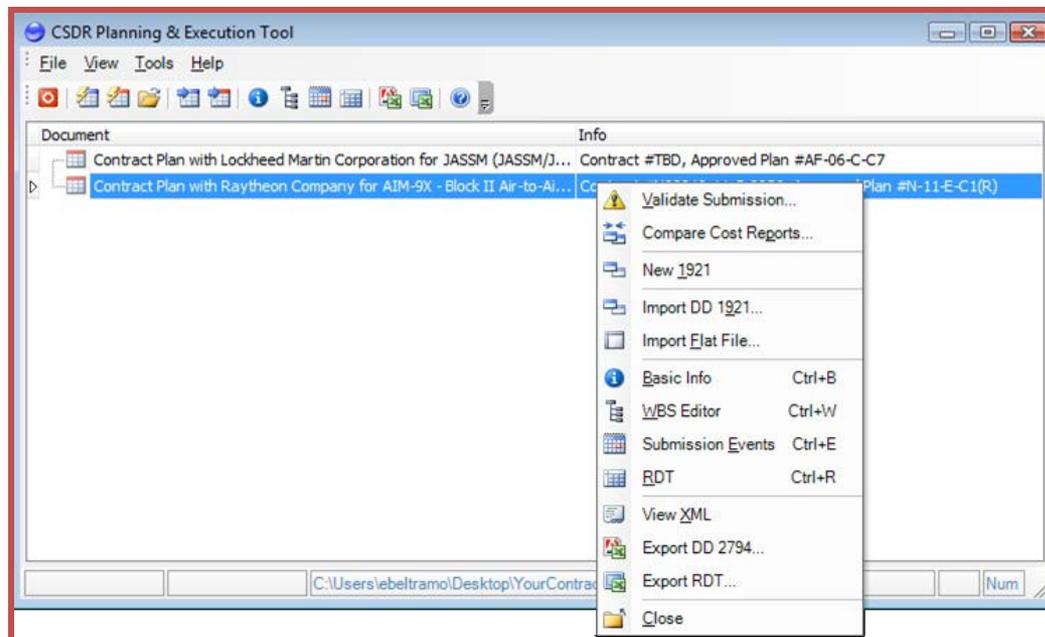
For cPet compatibility, the XML CSDR Plan file should be imported if available. Importing the Excel version of the plan will delete any information entered in the Remarks



Editing CSDR Plan Fields

OSD CAPE

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





Editing the RDT

OSD CAPE

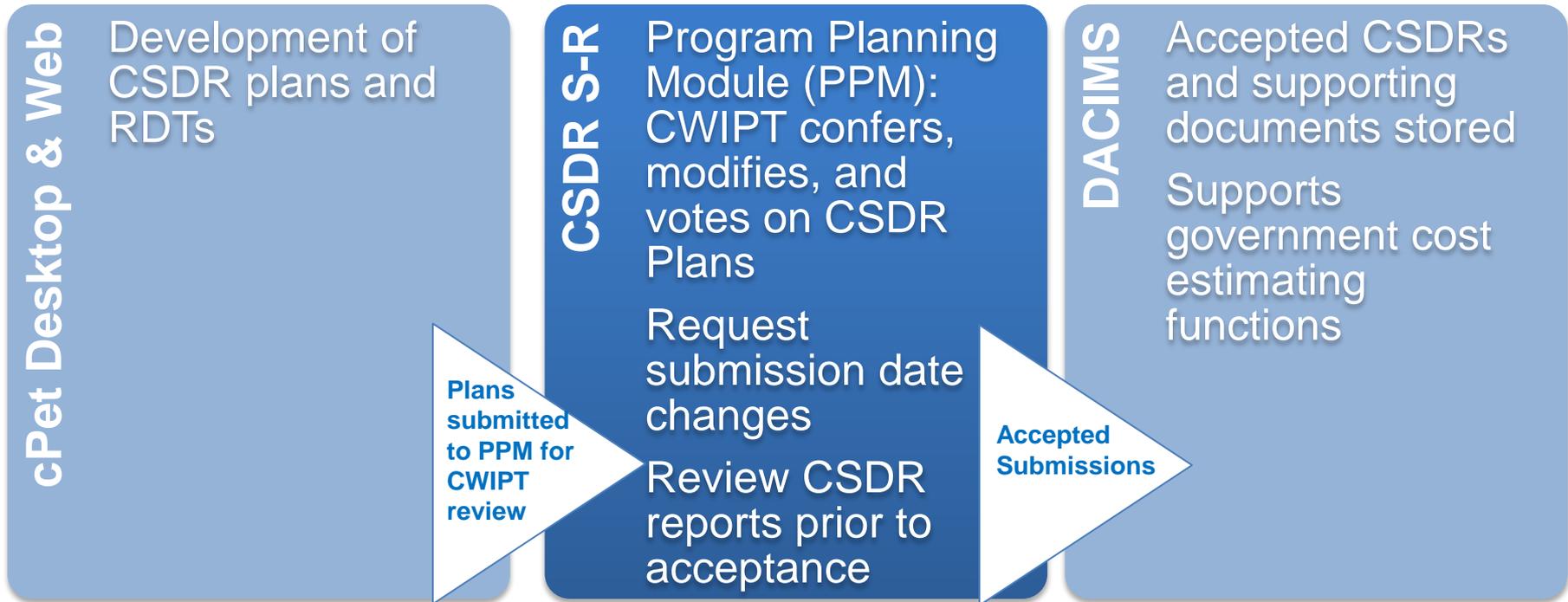
- The RDT editor allows the user to input information about the prime and subcontractor's efforts, contract value, software value and applicable elements
 - Information is edited on the “Prime Contractor” and “Subcontractor” tabs
 - Subcontractors are added by selecting the  icon

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



Data Users: CSDR S-R

OSD CAPE





Data Users: CSDR S-R

OSD CAPE

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

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



Program Planning Module Summary

OSD CAPE

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



CSDR S-R

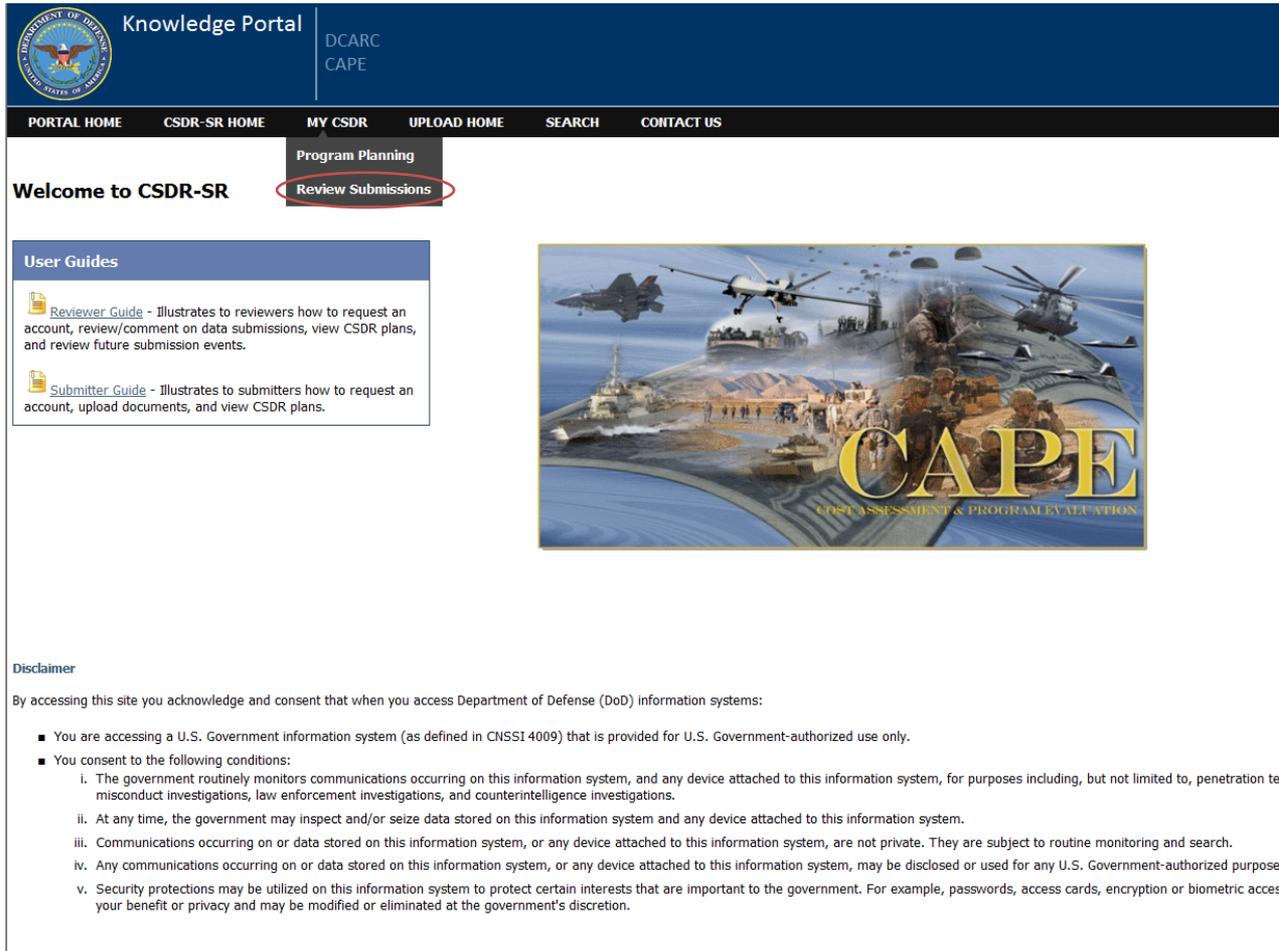
OSD CAPE

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

CSDR S-R: Requesting Date Changes – Step 1

OSD CAPE

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



Knowledge Portal | DCARC CAPE

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

Program Planning
Review Submissions

Welcome to CSDR-SR

User Guides

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

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

Disclaimer

By accessing this site you acknowledge and consent that when you access Department of Defense (DoD) information systems:

- You are accessing a U.S. Government information system (as defined in CNSSI 4009) that is provided for U.S. Government-authorized use only.
- You consent to the following conditions:
 - The government routinely monitors communications occurring on this information system, and any device attached to this information system, for purposes including, but not limited to, penetration to misconduct investigations, law enforcement investigations, and counterintelligence investigations.
 - At any time, the government may inspect and/or seize data stored on this information system and any device attached to this information system.
 - Communications occurring on or data stored on this information system, or any device attached to this information system, are not private. They are subject to routine monitoring and search.
 - Any communications occurring on or data stored on this information system, or any device attached to this information system, may be disclosed or used for any U.S. Government-authorized purpose.
 - Security protections may be utilized on this information system to protect certain interests that are important to the government. For example, passwords, access cards, encryption or biometric access your benefit or privacy and may be modified or eliminated at the government's discretion.



CSDR S-R: Requesting Date Changes – Step 2

OSD CAPE

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

Submission Review Home

Submissions **Contracts** Submission History Summary Report

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

Contract Detail

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

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

Submission Events

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

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

Manage Submission Events



CSDR S-R: Requesting Date Changes – Step 3

OSD CAPE

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

Contract Detail

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

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

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

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

Manage Submission Events

Submission Event Details

Back

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

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

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

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

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

Date change requests should be made as soon as the schedule changes



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 S-R”
 - 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	Administrator Actions	
Ctr: Northrop Grumman Corporation	Sub:	View Status/Stage Changes	
Event: Final Report - End of Contract FRP 1		In Process: DCARC <input type="text"/> <input type="button" value="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



CSDR S-R: Summary

OSD CAPE

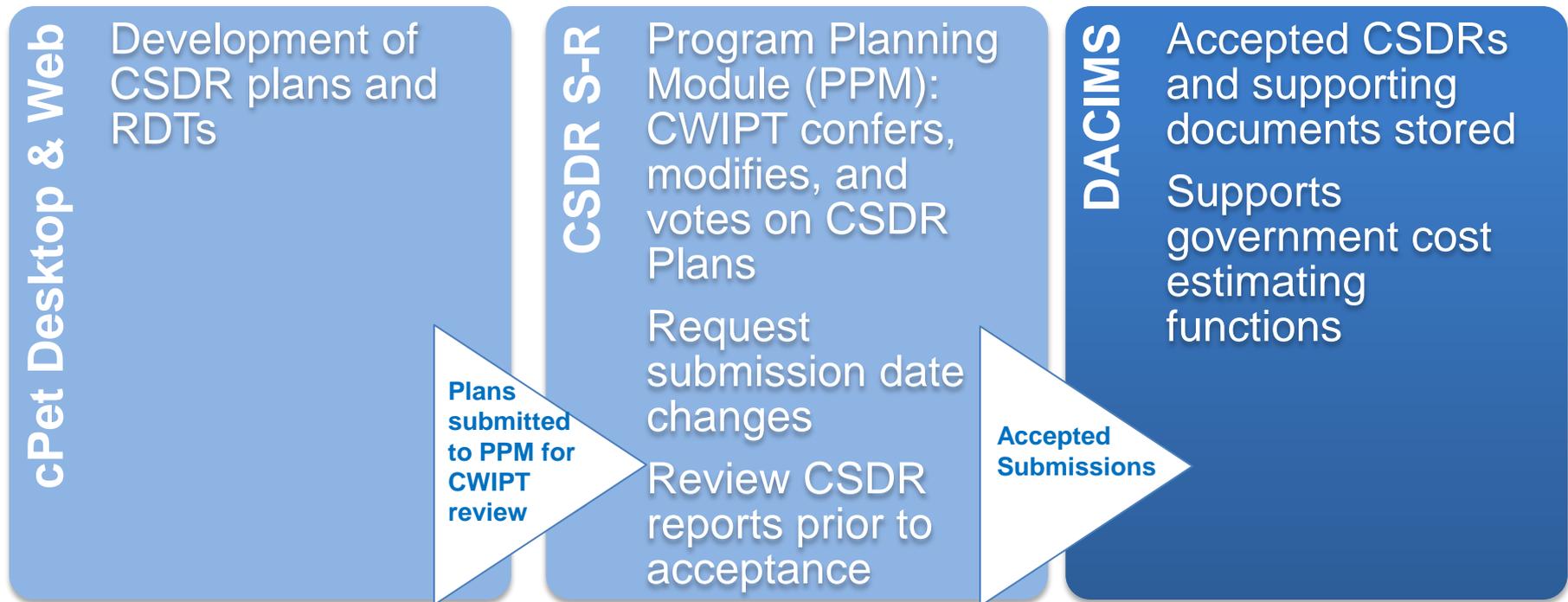
- CWIPT participation within the CSDR S-R is crucial to attaining reliable data for cost estimates by ensuring
 - Necessary requirements are established
 - Submissions are accurate and reflect expected data

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



Data Users: DACIMS

OSD CAPE





DACIMS: CSDR Repository

OSD CAPE

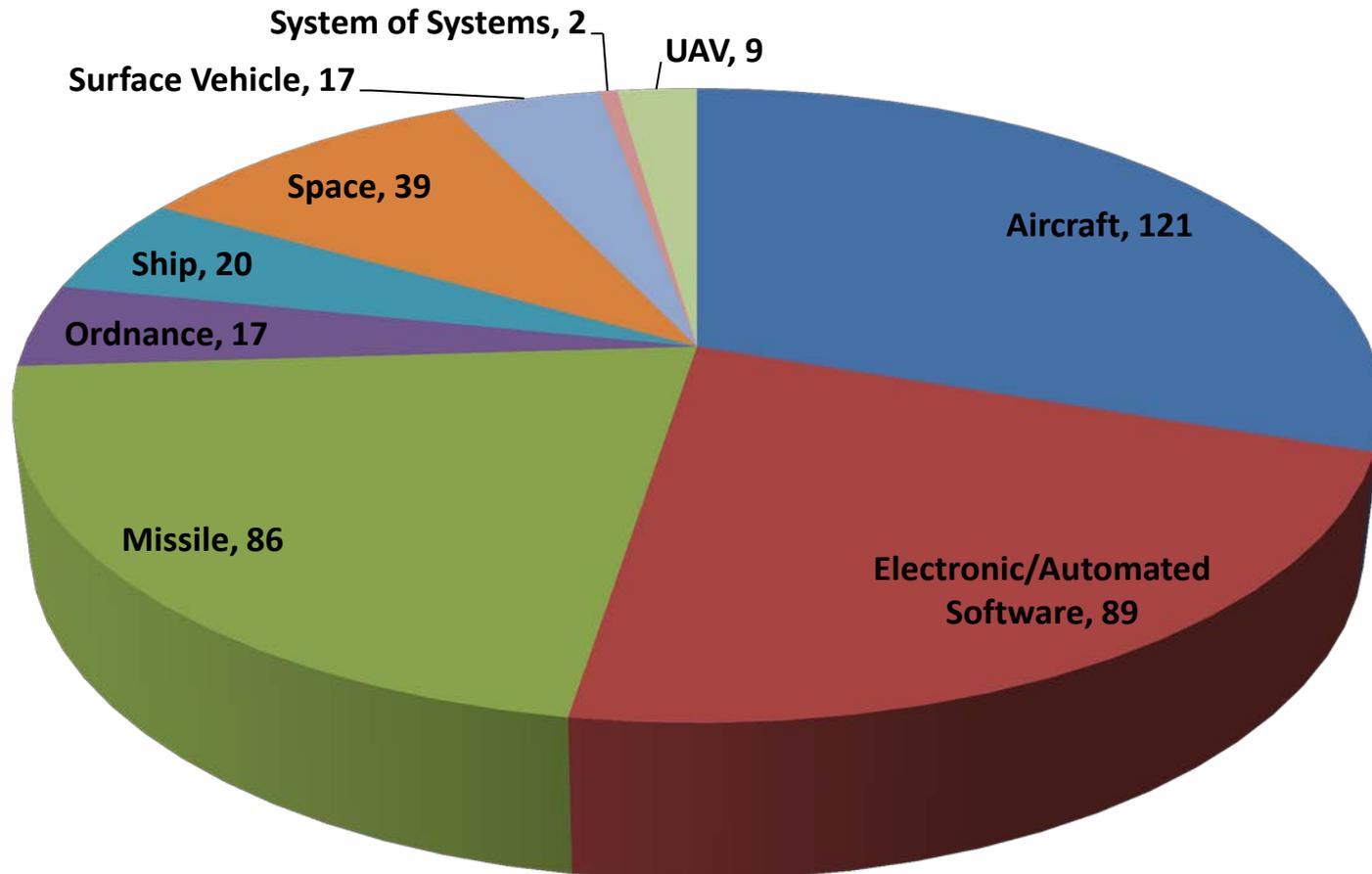
- Upon acceptance, reports are stored in the Defense Automated Cost Information Management System (DACIMS), a secure web-based repository
 - DACIMS can be accessed by DoD employees who have obtained online access through the DCARC website
 - Data is stored in folders organized by MIL-HDBK appendices



Programs in DACIMS

OSD CAPE

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

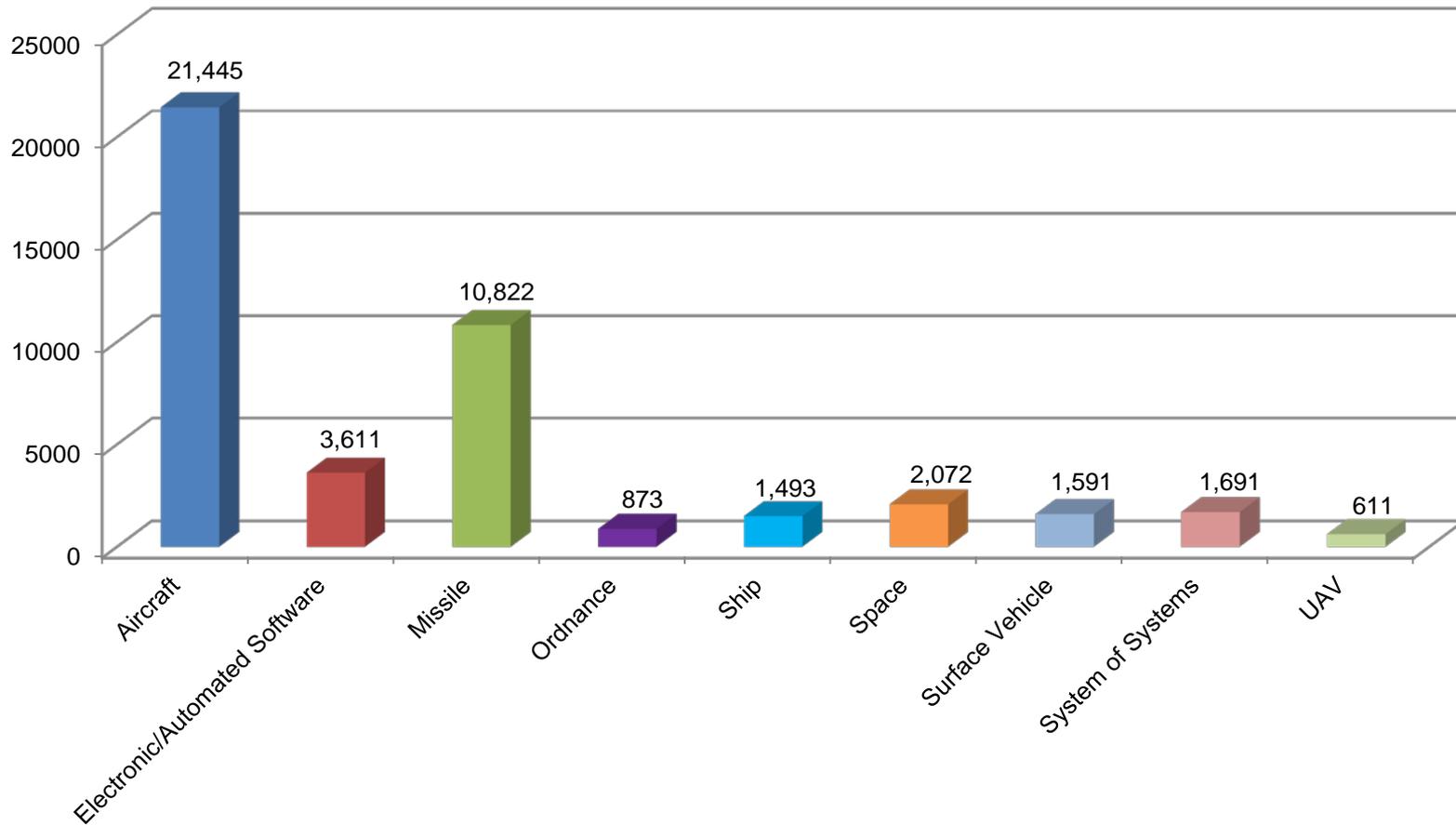




Documents in DACIMS

OSD CAPE

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





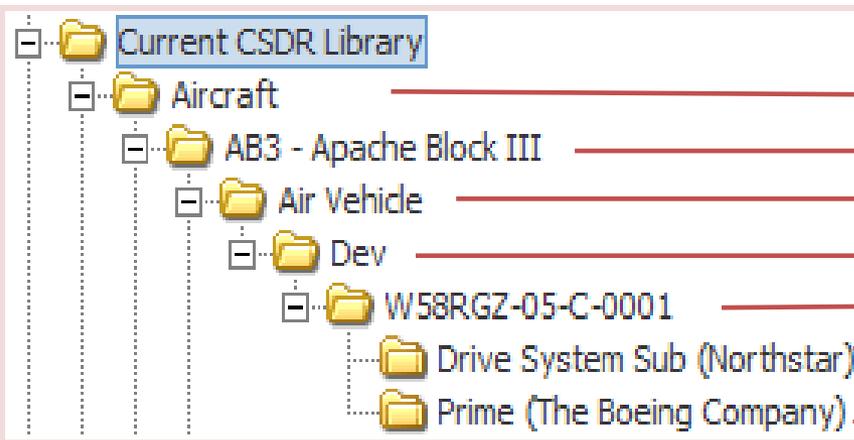
DACIMS Folder Structure

OSD CAPE

Click to get started →

Quick Links

- [Enter the Library](#)



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

Program Name – Designated MDAP name

Weapon System Type – Defines the type of product being delivered

Acquisition Phase – Development, Production, Sustainment

Prime Contract Number

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

DACIMS File Folders

OSD CAPE



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

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

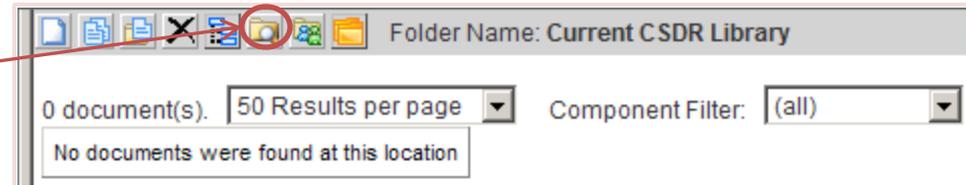
- Within the “Reporting Contractor” folder, each submission made to the DCARC is stored within a separate file folder
- Each file folder contains all reports for the submission (Contract Data Reporting Structure Dictionary, CCDR, or SRDR) and DCARC Acceptance Memo



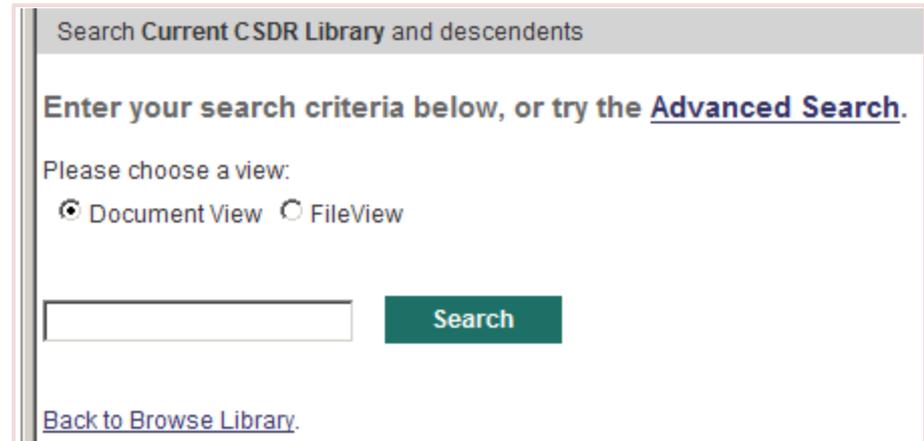
Searching DACIMS

OSD CAPE

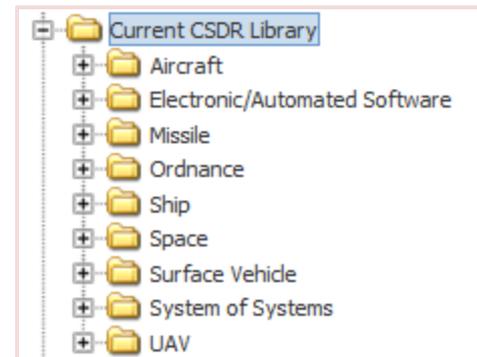
- Click for Search Options



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



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





Basic Search: Document View

OSD CAPE

Please choose a view:

Document View FileView

Aircraft

[Back to Browse Library.](#)

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

Search Current CSDR Library and descendents

[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

[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:

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

Search Aircraft and descendants

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

Details	Title	Folder Path	Contract Task Information	Report As Of Date
	1921 (12/31/2010), F/A-18E/F - SUPER HORNET Naval Strike Fighter - N00019-04-C-0014 (GKN Aerospace)	Current CSDR Library\Aircraft\F/A-18E/F - SUPER HORNET Naval Strike Fighter\F/A-18E; F/A-18F 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 Repor	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:

Modify Search

Cancel Search

Download to Excel

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)	eaed1d9b3-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

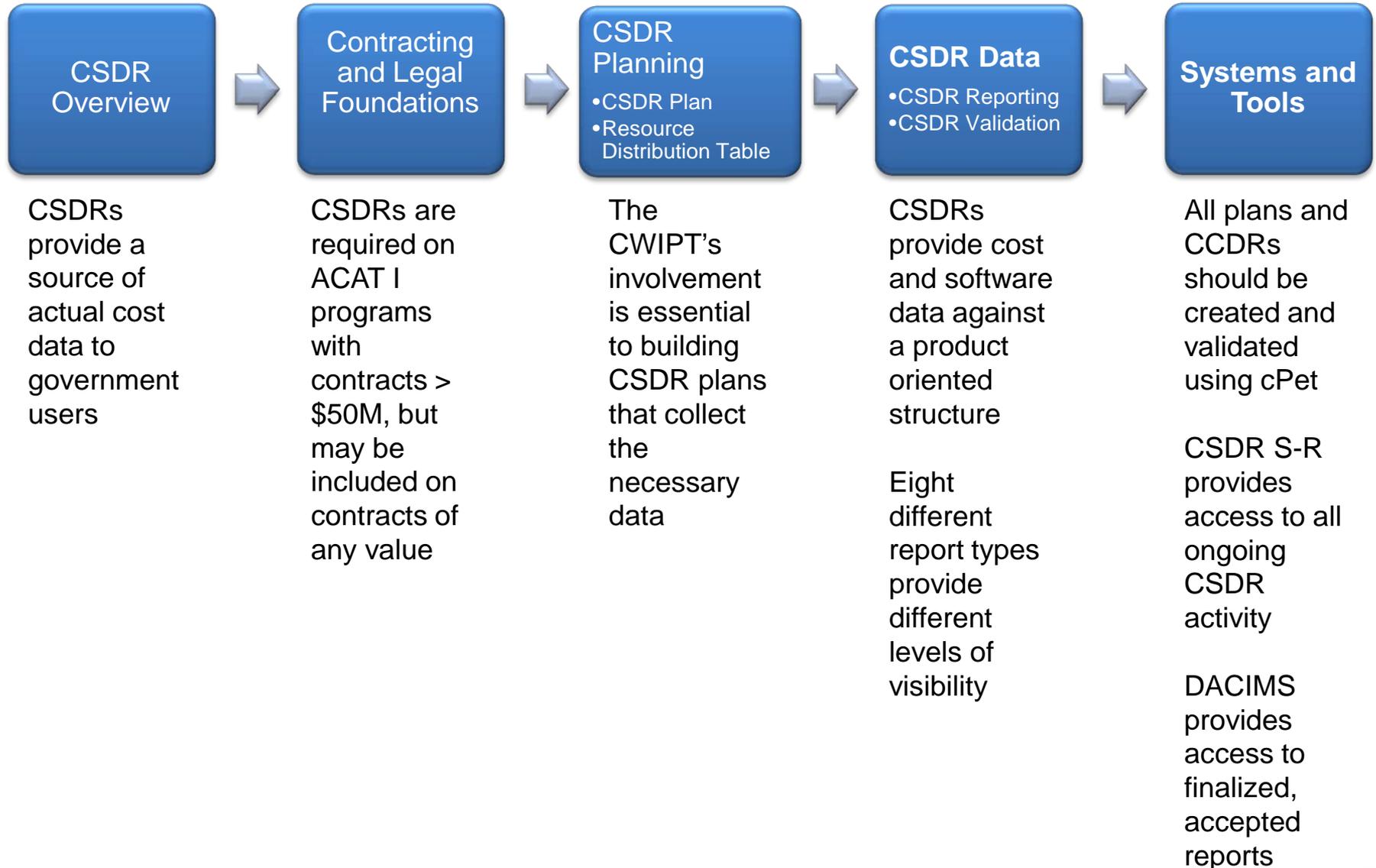
OSD CAPE

- **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

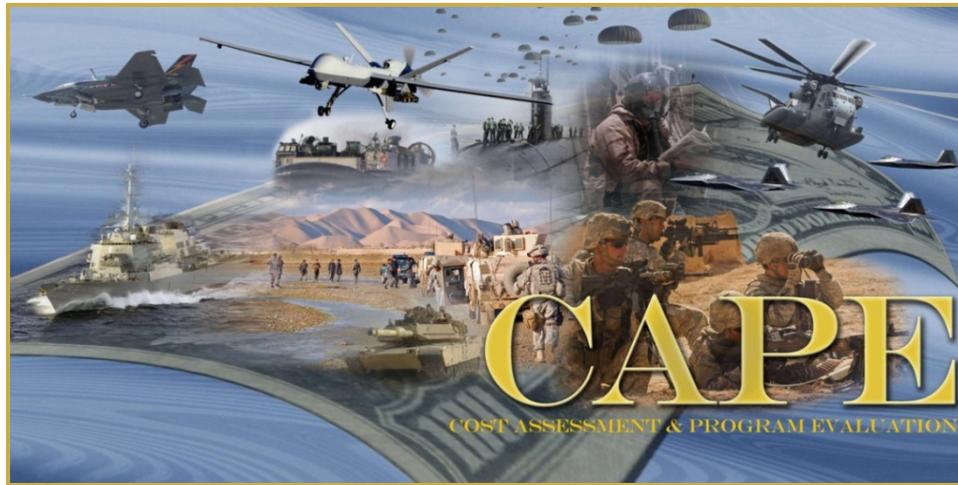


CSDR Training Summary

OSD CAPE



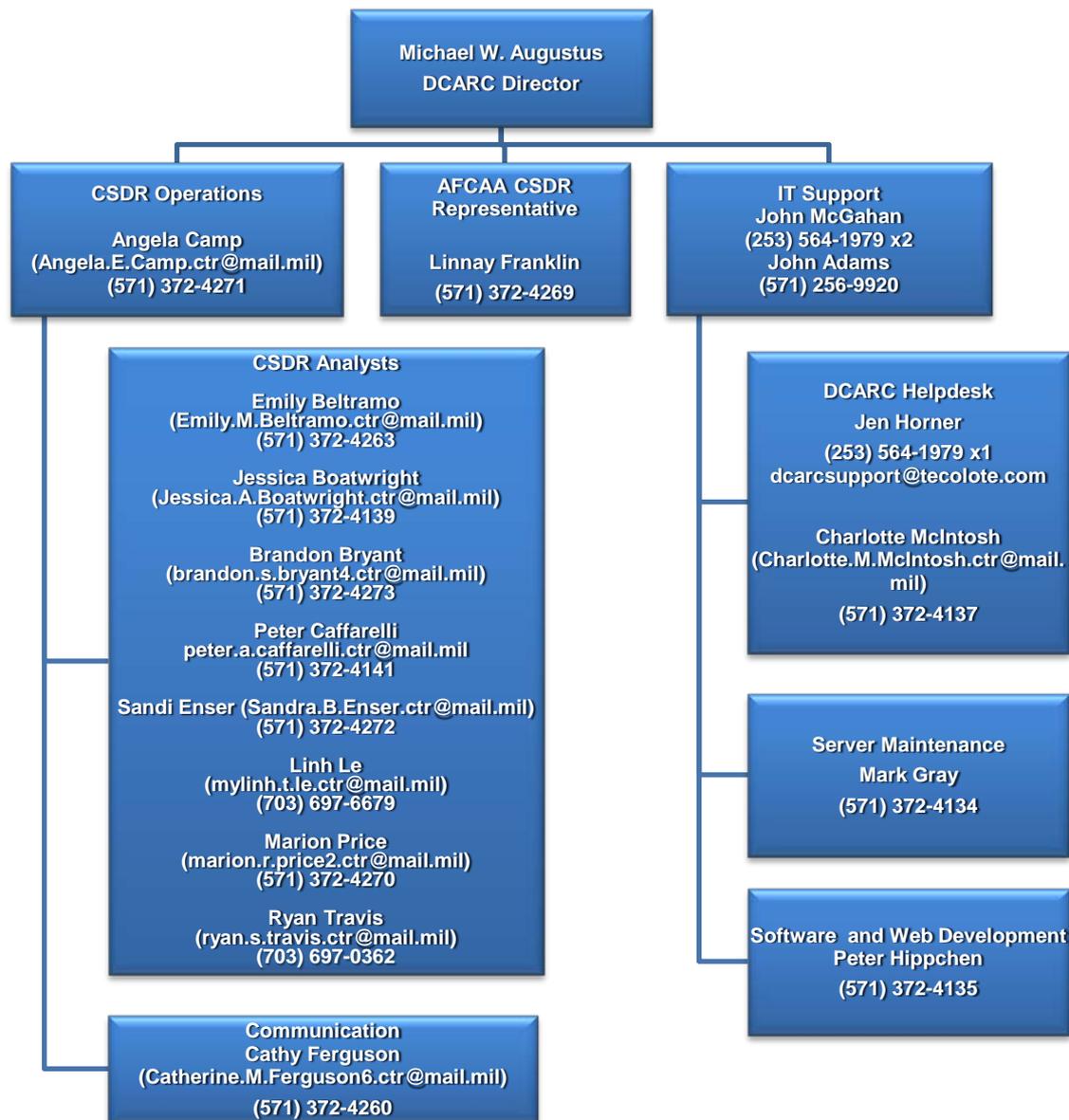
Questions?





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



**PARCA
EVM**

PARCA EVM POLICY TRAINING

PARCA / CAPE Co-Training

Orlando, FL

November 19, 2014



8:00 – 8:30	OSD PARCA Themes
8:30 – 11:30	EVM Policy and Data Requirements Integrated Program Management Report (IPMR)
<i>11:30 – 1:00</i>	<i>Lunch</i>
1:00 – 3:00	EVM Central Repository (EVM-CR) <ul style="list-style-type: none">• Submission Process• Data Analysis and Viewing• Data Quality• Data Delivery Status
3:00 – 4:00	PARCA Performance Assessments
4:00 – 4:30	Question and Answer



**PARCA
EVM**

OSD PARCA THEMES



PARCA EVM

Key PARCA EVM Themes

- All programs need program management, even if they don't use a full EVM implementation
- EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.
- Policy sets the direction and expectations for the implementation of Earned Value Management
- The IPMR provides integrated cost and schedule data for visibility into drivers of performance, decision making, and situational awareness
- The Government is serious about EVM and EV data is being used



**PARCA
EVM**

PARCA



PARCA EVM

PARCA Training Objectives

- ▶ Describe the role of PARCA
- ▶ Define the relationship between Integrated Program Management and Earned Value Management
- ▶ Explain the applicability of EVM Policy and Reporting Requirements



PARCA EVM

PARCA Agenda

1. PARCA
2. Integrated Program Management (IPM) and Earned Value Management (EVM)
3. EVM Policy and Requirements
4. Integrated Program Management Report (IPMR)
5. EVM Tailoring
6. Recap



**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

**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

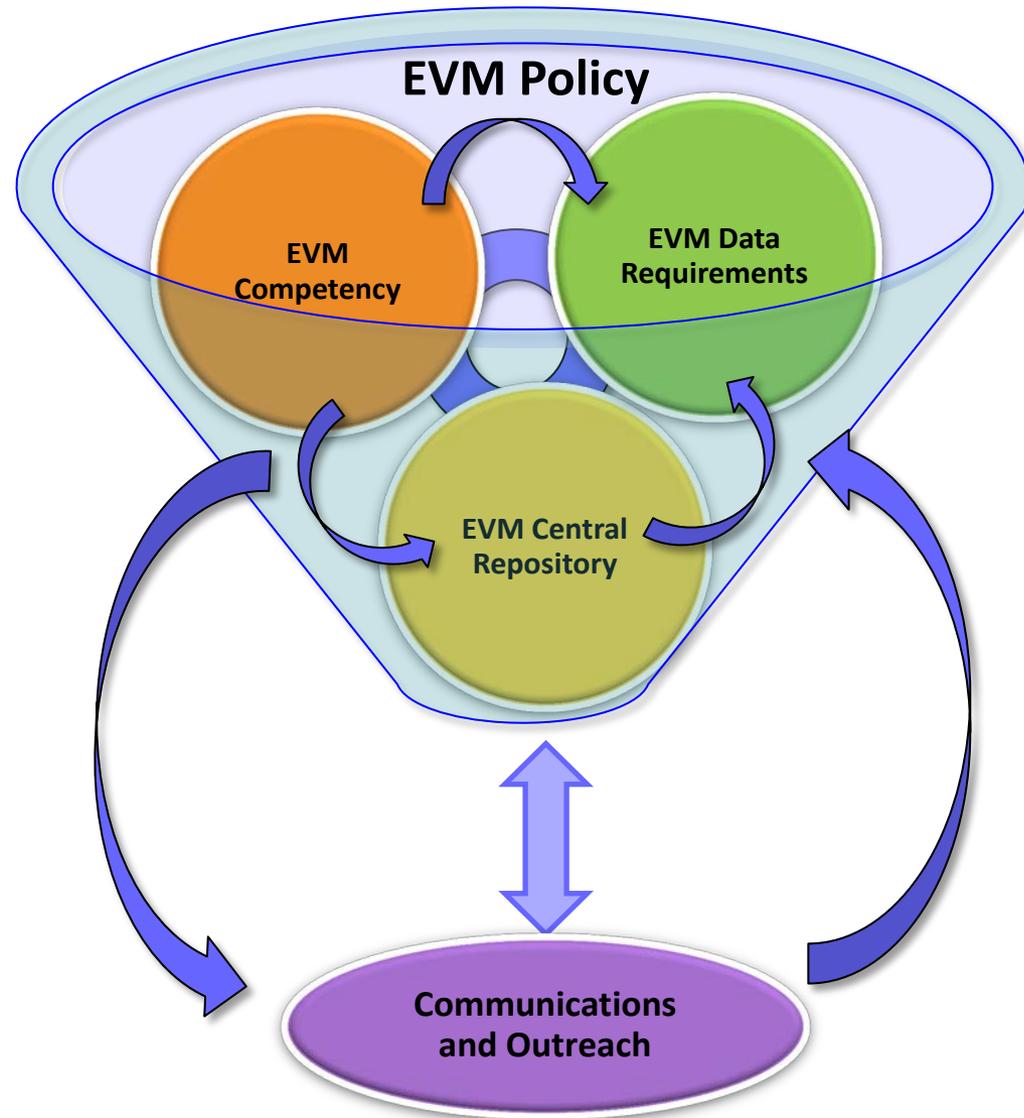
As the central office for major defense authorization performance assessment, root cause analysis, and earned value management (EVM), PARCA advises AT&L on program execution status; and issues policies, procedures, and guidance to the Military Departments and the Defense Agencies to improve program management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



PARCA EVM

PARCA EVM Organization

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





**PARCA
EVM**

INTEGRATED PROGRAM MANAGEMENT (IPM) AND EARNED VALUE MANAGEMENT (EVM)

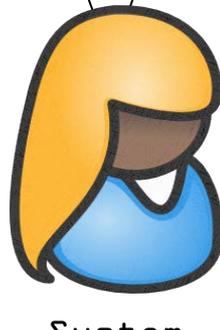


PARCA
EVM

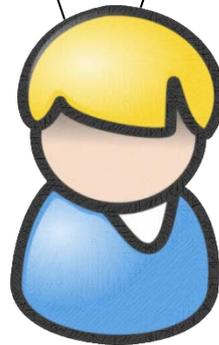
Integrated Program Management - EVM Integration



Contracts



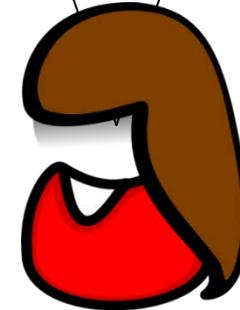
System
Engineering



EVM Analyst



Business/Finance



Program
Manager

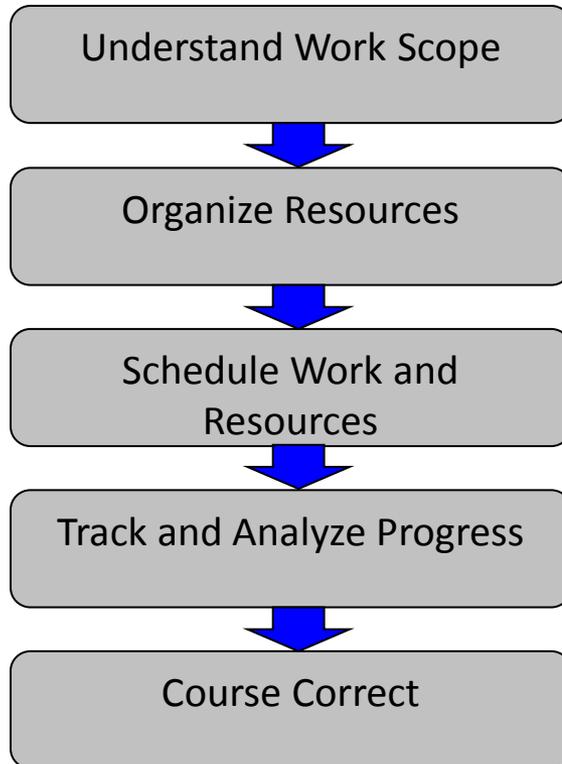
All programs need program management, even if they don't use a full EVM implementation



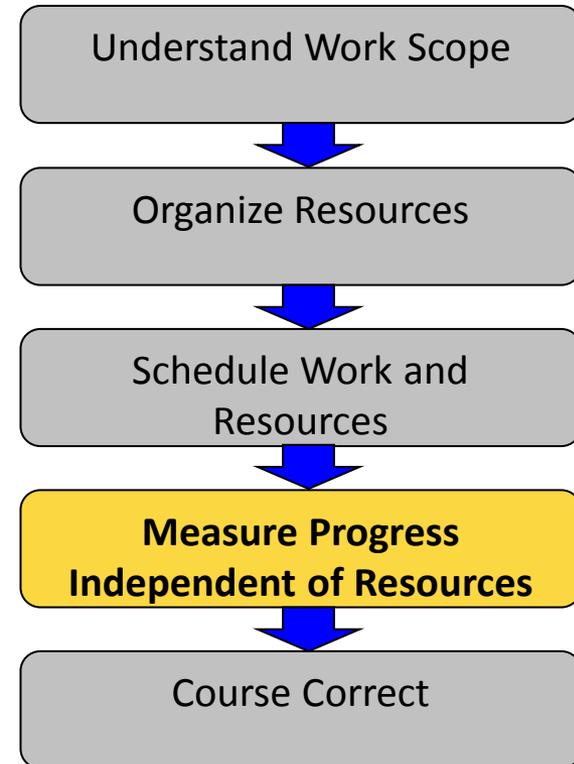
PARCA EVM

IPM and EVM

Integrated Program Management



Earned Value Management



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



PARCA EVM

EVM - Disciplined PM Tool for Decision Making

- ▶ EVM establishes a clear linkage between planned, actual, and projected accomplishments
 - Integrated technical, cost, and schedule
 - Early warning indicators and visibility into drivers of performance
 - Ability to forecast performance and construct corrective action plans
 - Tailorable to needs of program

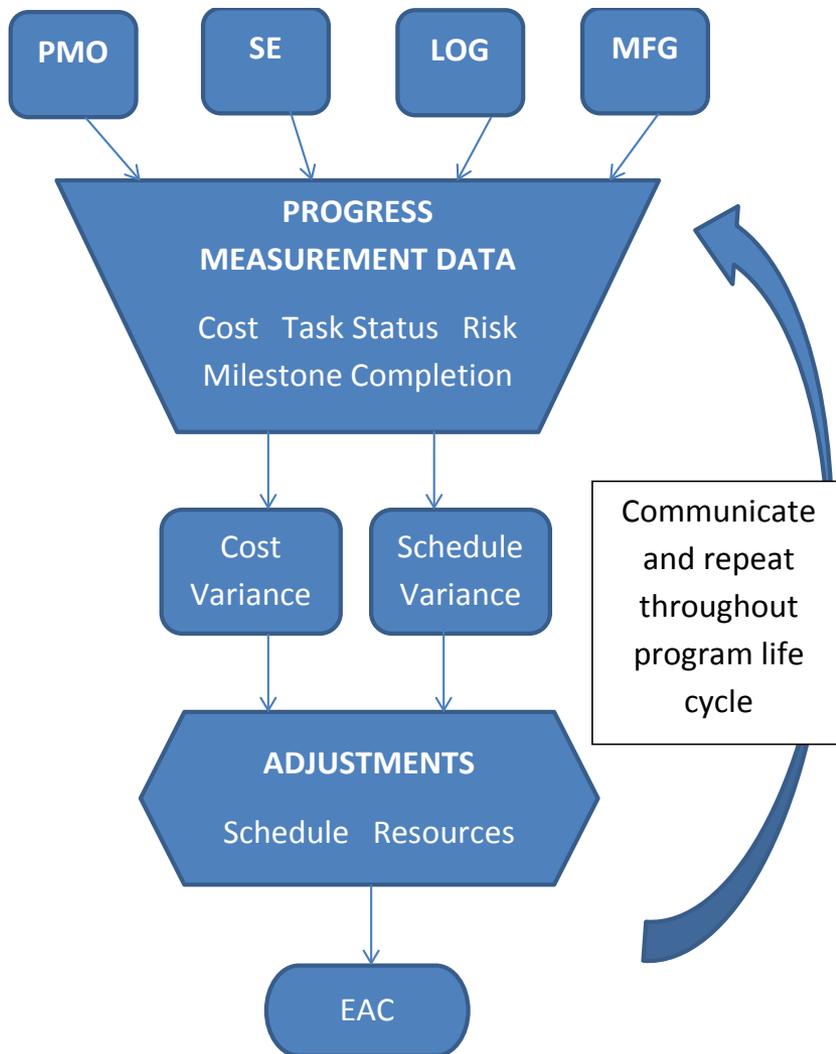
- ▶ EVM supports all disciplines in their efforts to track progress
 - Communication and coordination across the team
 - Checks and balances for accountability
 - Objective information to allow proactive decision making and risk management
 - Does not replace other program management tools such as TPM's or risk



PARCA EVM

EVM uses data produced by all functional areas in the normal course of program execution to facilitate decision making

EVM Supports All





IPM and EVM Recap

- All programs need program management, even if they don't use a full EVM implementation
- EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.
- Policy sets the direction and expectations for the implementation of Earned Value Management*
- The IPMR provides integrated cost and schedule data for visibility into drivers of performance, decision making, and situational awareness*
- The Government is serious about EVM and EV data is being used*



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EVM POLICY AND REQUIREMENTS



PARCA
EVM

EVM Policy and Requirements Agenda

- ▶ EVM Policy Strategy and Better Buying Power
- ▶ EVM Policy
- ▶ EVM Requirements



EVM Policy Strategy Related to DoD Initiatives

▶ EVM Policy Strategy supports BBP Objectives

■ *Achieve Affordable Programs*

- Clarify EVM policy to reduce administrative and economic burden of the implementation of EVM systems
- Leverage tailored EVM approaches to gain insight into program performance in support of decision making

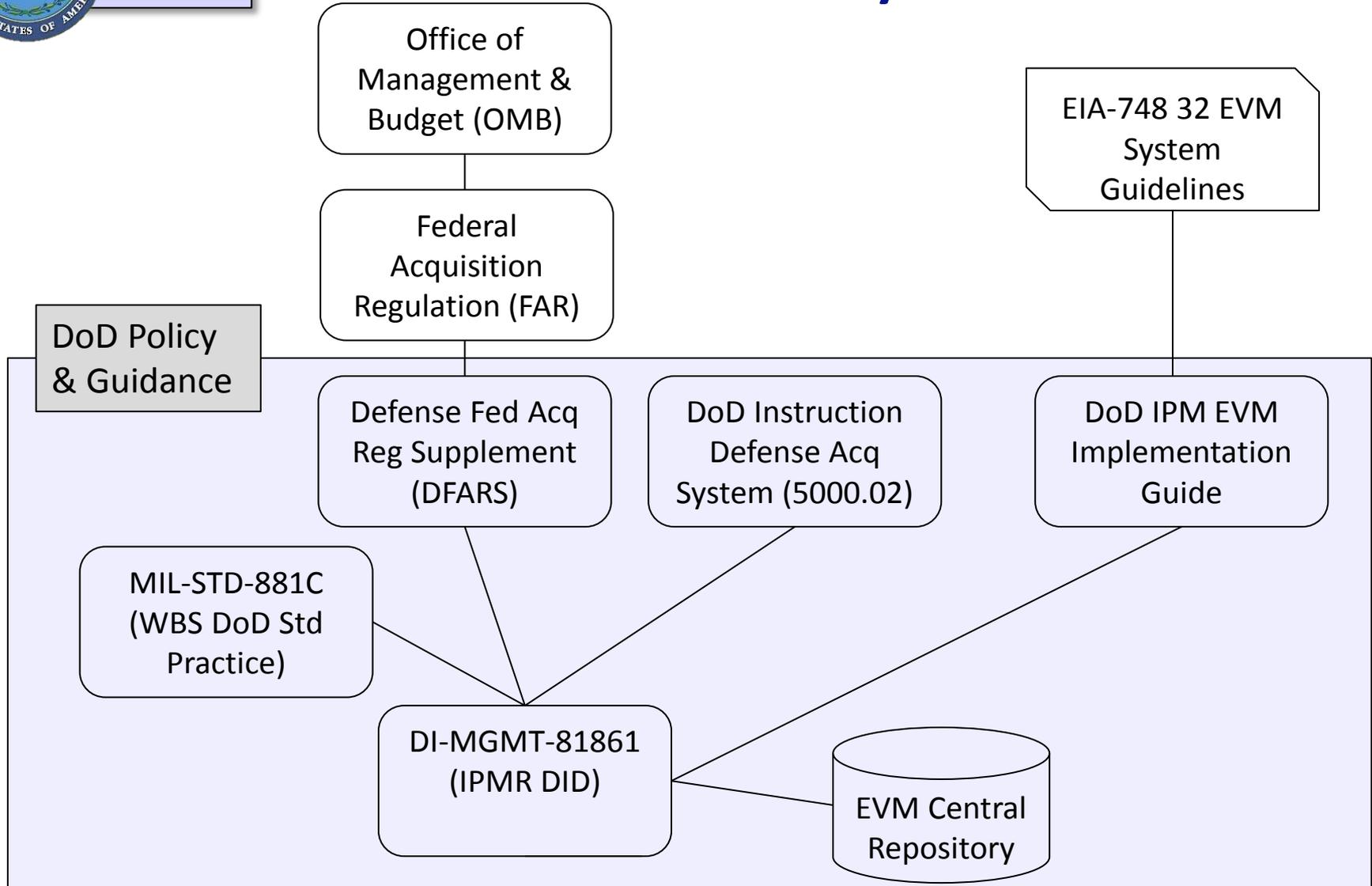
■ *Control Costs Throughout the Product Lifecycle*

- Establish policy and provide guidance to ensure proper application of EVM based on program work scope, risk, size, and duration
- Provide guidance to ensure consistent review and use of contractor data in Government oversight

Hon. Frank Kendall, Under Secretary of Defense for AT&L has been seeking company input on identifying "things that are adding costs but not adding value."



EVM Policy





**PARCA
EVM**

EVM Requirements (>\$50M)

REQUIREMENTS	WHEN REQUIRED
For Cost/Incentive Contracts ≥ \$50 Million	
• Compliance with EVM system guidelines in ANSI/EIA-748	At contract award and throughout contract performance
• EVM system formally validated and accepted by cognizant contracting officer	At contract award and throughout contract performance
• Integrated Program Management Report (DI-MGMT-81861)	Monthly
• Integrated Baseline Reviews	Within 180 calendar days after contract award, exercise of options, and major modifications

- The term, “Contracts,” includes contracts, subcontracts, intra-government work agreements, and other agreements; “Incentive” contracts include fixed-price incentive with measurable and discrete work scope
- EVM is required for FPIF development and integration contracts In cases where the work scope is not measurable and discrete, program offices should follow the process to obtain a DFARS deviation



**PARCA
EVM**

EVM Requirements (>\$20M but <\$50M)

REQUIREMENTS	WHEN REQUIRED
For Cost/Incentive Contracts \geq \$20 Million but $<$ \$50 Million	
<ul style="list-style-type: none"> Compliance with EVM system guidelines in ANSI/EIA-748 (no formal EVM system validation) 	At contract award and throughout contract performance
<ul style="list-style-type: none"> Integrated Program Management Report (DI-MGMT-81861) (tailoring of formats recommended) 	Monthly
<ul style="list-style-type: none"> Integrated Baseline Reviews 	Within 180 calendar days after contract award, exercise of options, and major modifications



PARCA EVM

EVM Requirements (<\$20M & FFP)

REQUIREMENTS	WHEN REQUIRED
For Cost/Incentive Contracts < \$20 Million	
- EVM Application	At the discretion of the Program Manager based on cost-benefit analysis
· Integrated Program Management Report, Format 6 (DI-MGMT-81861)	At the discretion of the Program Manager based on Government requirements
For Firm Fixed-Price Contracts regardless of dollar value	
- EVM Application	Limited Use—will be approved by the MDA based on a business case analysis
· Integrated Program Management Report, Format 6 (DI-MGMT-81861)	At the discretion of the Program Manager based on Government requirements



PARCA EVM

EVM Policy and Requirements Recap

- All programs need program management, even if they don't use a full EVM implementation*
- EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.*
- Policy sets the direction and expectations for the implementation of Earned Value Management**
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- The Government is serious about EVM and EV data is being used*



**PARCA
EVM**

INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR)



**PARCA
EVM**

IPMR Agenda

- ▶ IPMR
- ▶ Tailoring
- ▶ XML



PARCA EVM

Integrated Reporting

Cost
Reporting
(CPR)

DATA ITEM DESCRIPTION

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

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

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



DATA ITEM DESCRIPTION

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

APPLICABLE FORMS: None

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

Schedule
Reporting
(IMS)

DATA ITEM DESCRIPTION

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

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



IPMR Provides Value

The IPMR's primary value is its ability to provide integrated, current contract status that is trustworthy for trend analysis and decision making

- Allows **flexibility in tailoring** to provide the right type and volume of information for the various contract types and situations
- Provides basis for **communicating performance status** with the contractor by the DoD component staff, including program managers, engineers, cost estimators, and financial management personnel
- **Integrates cost and schedule** performance data with objective technical measures of performance



IPMR Report Formats

Cost Reporting

A sample IPMR Form for Cost Reporting, showing various sections for project information, contract details, and a large table for reporting cost data. A 'SAMPLE' watermark is visible across the form.

- WBS EVM data (Format 1)
- OBS EVM data (Format 2)
- Changes to baseline (Format 3)
- Staffing Plan (Format 4)
- Variance Analysis (Format 5)
- Annual historical & future plan spread (Format 7)

Schedule Reporting

Task Name	Start	Finish	6, '07							Sep 2, '07							Sep
			T	W	T	F	S	S	M	T	W	T	F	S	S	M	
1 - Program Event	Wed 8/29/07	Fri 9/7/07	[Gantt bar]														
2 (PE) Program Event Completed	Fri 9/7/07	Fri 9/7/07	[Milestone]														
3 - Significant Accomplishment 1	Wed 8/29/07	Fri 9/7/07	[Gantt bar]														
4 (SA) Significant Accomplishment Completed 2	Fri 9/7/07	Fri 9/7/07	[Milestone]														
5 - Accomplishment Criteria 1.1	Tue 9/4/07	Fri 9/7/07	[Gantt bar]														
6 (AC) Accomplishment Criteria Completed	Fri 9/7/07	Fri 9/7/07	[Milestone]														
7 Task 1.1.1	Tue 9/4/07	Tue 9/4/07	[Task bar]														
8 Task 1.1.2	Wed 9/5/07	Wed 9/5/07	[Task bar]														
9 Task 1.1.3	Thu 9/6/07	Thu 9/6/07	[Task bar]														
10 Task 1.1.4	Fri 9/7/07	Fri 9/7/07	[Task bar]														
11 - Accomplishment Criteria 1.2	Wed 8/29/07	Mon 9/3/07	[Gantt bar]														
12 (AC) Accomplishment Criteria Completed	Mon 9/3/07	Mon 9/3/07	[Milestone]														
13 Task 1.2.1	Wed 8/29/07	Wed 8/29/07	[Task bar]														
14 Task 1.2.2	Thu 8/30/07	Thu 8/30/07	[Task bar]														
15 Task 1.2.3	Fri 8/31/07	Fri 8/31/07	[Task bar]														
16 Task 1.2.4	Mon 9/3/07	Mon 9/3/07	[Task bar]														

- Integrated Master Schedule (Format 6)
 - Critical Path / Driving Path
 - Milestones
- Schedule Risk Analysis (SRA)
- Schedule Analysis



Major IPMR Cost Data Elements

- ▶ Planned Value (BCWS): How much work (person-hours) you planned to have accomplished at a given point in time (this is from the WBS in your plan)
- ▶ Actual Cost (ACWP): How much work (person-hours) you have actually spent at a given point in time
- ▶ Earned Value (BCWP): The value (person-hours) in terms of your base budget of what you have accomplished at a given point in time (or, % complete X Planned Value)
- ▶ Budget At Completion (BAC): The total amount of scope as represented in dollars
- ▶ Estimate At Completion (EAC): The estimate for the cost of the work to be performed
- ▶ Cost Variance (CV): Difference between earned value and actual costs
- ▶ Schedule Variance (SV): Difference between earned value and planned value
- ▶ Variance Analysis Report (VAR): Analysis of cost and schedule issues, risks, and other programmatic information



Major IPMR Schedule Data Elements

- ▶ Standard scheduling fields (duration, start date, end date, relationships, task description, etc.)
- ▶ Justification for Leads, Lags and most constraints
- ▶ Schedule Risk Assessment (SRA)
- ▶ Schedule Margin & Schedule Visibility Tasks (SVTs)
- ▶ Critical & Driving Paths
 - Tasks with “0” or negative total float are not by default the critical path
 - Driving path and interim milestones defined
- ▶ Other fields as required by the PMO



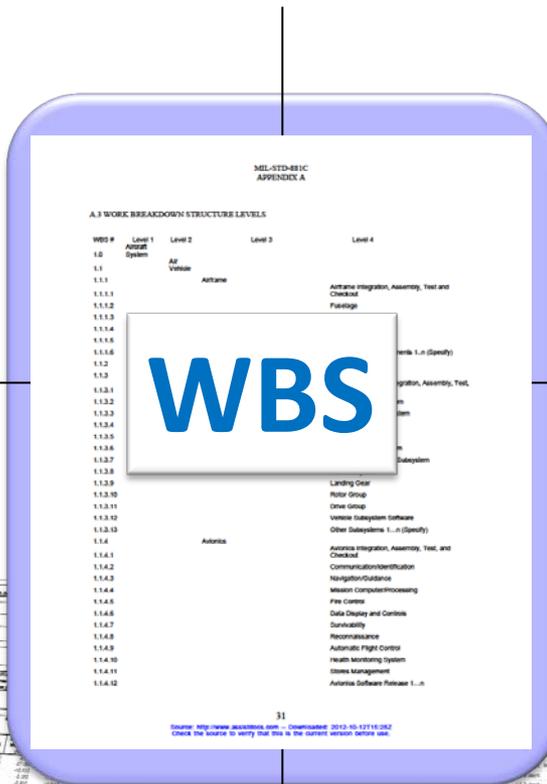
Getting the WBS Right is Paramount

Technical

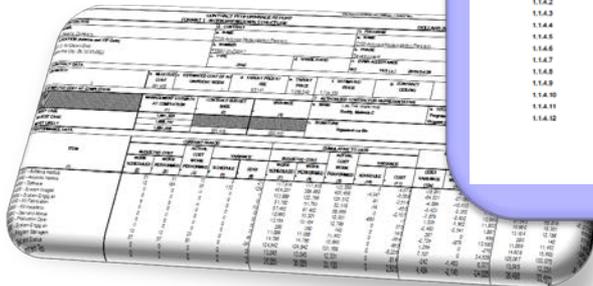
- TPMs
- Specifications
- Design docs
- Performance char.

Risk & Risk Assessment

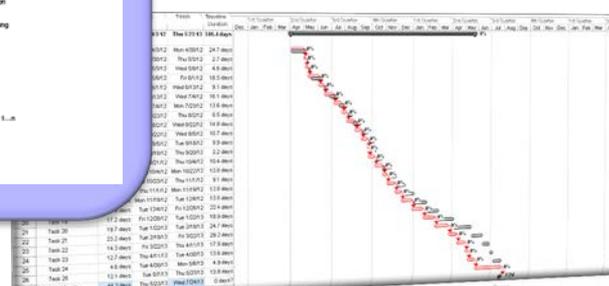
- Level of Detail
- Program Oversight level of detail



Earned Value Cost and Schedule Status



Schedule IMP / IMS



The WBS facilitates communication across the program



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



PARCA EVM

IPMR Format 1 – WBS & EVM

BAC / EAC

- Budgets by WBS
- EAC by WBS
- MR / UB

INTEGRATED PROGRAM MANAGEMENT REPORT				FORM 1 - WORK BREAKDOWN STRUCTURE				PENDING UPDATE TO			
FORMAT 1 - WORK BREAKDOWN STRUCTURE (Dollars in Thousands)								FORM No. 0704-0118			
The public reporting burden for this collection of information is estimated to average 1.5 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, Directorate for Information Operations and Reports (0704-0118), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. 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 FORM TO THIS ADDRESS. SUBMIT TO THE ADDRESS INDICATED ON THE REPORT.											
1. CONTRACTOR		2. CONTRACT		3. PROGRAM		4. REPORT PERIOD		5. NAME		6. FROM (YYYYMMDD)	
A. NAME		A. NAME		A. NAME		A. FROM (YYYYMMDD)		A. NAME		A. FROM (YYYYMMDD)	
B. LOCATION (Address and ZIP Code)		B. NUMBER		B. PHASE		B. TO (YYYYMMDD)		B. NAME		B. FROM (YYYYMMDD)	
C. TYPE		C. SHARE RATIO		C. EVMS ACCEPTANCE		C. TO (YYYYMMDD)		C. NAME		C. FROM (YYYYMMDD)	
D. ESTIMATED COST OF AUTHORIZED UNPRICED WORK		E. TARGET PRIORITY / FEE		F. ESTIMATED PRICE		G. CONTRACT CEILING		H. ESTIMATED CONTRACT CEILING		I. DATE OF OTR/OTS (YYYYMMDD)	
8.00		8.00		22,409.3		20,200.0		20,200.0			

ITEM	CURRENT PERIOD					CUMULATIVE TO DATE					REPROGRAMMING ADJUSTMENTS			AT COMPLETION		
	BUDGETED COST		ACTUAL COST		VARIANCE	BUDGETED COST		ACTUAL COST		VARIANCE	COST VARIANCE	SCHEDULE VARIANCE	BUDGET	BUDGETED	ESTIMATED	VARIANCE
	WORK	WORK	WORK	WORK	SCHEDULE	WORK	WORK	WORK	WORK	SCHEDULE						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)
8. PERFORMANCE DATA																
a. WORK BREAKDOWN STRUCTURE																
ELEMENT																
2000 - PROJ MANAGEMENT	50.2	48.4	62.2	-1.8	-13.8	882.6	869.4	930.6	-13.2	-61.2				1,384.6	1,418.6	-34.0
3000 - PRIME EQUIP	1,272.4	1,148.0	1,299.4	-124.4	-151.4	4,809.2	4,424.4	4,792.0	-384.8	-367.6				14,606.4	14,915.4	-309.0
4000 - SPARES	58.0	59.4	61.8	1.4	-2.4	133.8	135.0	142.8	1.2	-7.8				755.6	761.8	-6.2
5000 - DATA	12.6	11.8	27.4	-0.8	-15.6	98.8	92.2	110.0	-6.6	-17.8				127.0	143.0	-16.0
6000 - TEST & EVAL	102.6	104.4	101.0	1.8	3.4	692.2	706.8	706.2	14.6	0.6				1,633.0	1,635.0	-2.0
[OH] - OVERHEAD																
b. COST OF MONEY																
c. GENERAL AND ADMINISTRATIVE																
d. UNALLOCATED BUDGET																
e. SUB TOTAL (Performance Measurement Baseline)																
	1,645.4	1,509.2	1,707.0	-136.2	-197.8	7,278.6	6,850.8	7,349.8	-427.8	-499.0				20,357.0	20,761.0	-404.0
f. MANAGEMENT RESERVE																
															439.2	
g. TOTAL	1,645.4	1,509.2	1,707.0	-136.2	-197.8	7,278.6	6,850.8	7,349.8	-427.8	-499.0				20,796.2		

WBS EVM Data

- Plan / Actuals / Performance
- Cost Variance
- Schedule Variance

The IPMR provides integrated cost and schedule data to provide visibility into drivers of performance for decision making and situational awareness

IPMR Data Item Description (DID) cont.

- 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 (2)	BCV/S FOR REPORT PERIOD (3)	BUCKETED COST FOR WORK SCHEDULED (BCV/S) (Non-Cumulative)										UNQS- TRIBUTED BUDGET (15)	TOTAL BUDGET (16)	
			SIX MONTHLY FORECAST						ENTER DESCRIBED PERIOD						
			+1	+2	+3	+4	+5	+6	(10)	(11)	(12)	(13)			(14)
(1)	(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															

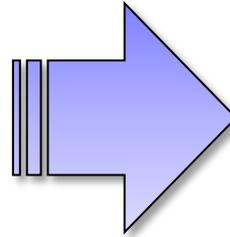
- Format 4**

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



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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



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 (15 WBS items)
- 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

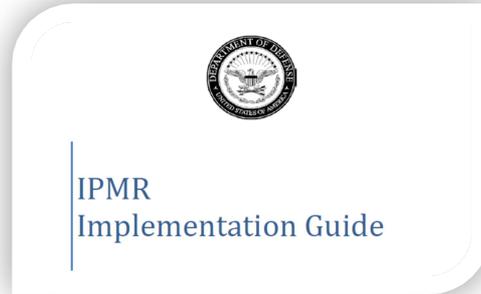
- Defines the annual reporting of time-phased historical and forecast cost submission
- **Benefit:** Enhances Government analysis beyond information in Format 1 or 5



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IPMR DID Related Guidance

- ▶ IPMR Guide



- ▶ IPMR Release Memo
- ▶ MIL STD 881C
- ▶ Earned Value Management Central Repository (EVM-CR)
- ▶ Service/Agency Guidance
- ▶ PARCA Guidance & Interpretation



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XML



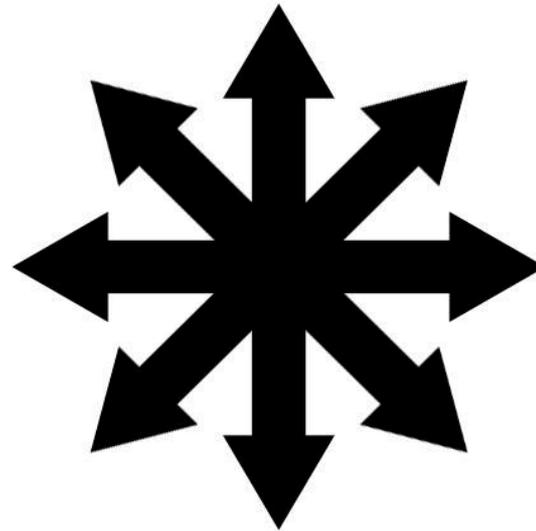
**PARCA
EVM**

Quick Test....

- ▶ How many of you know what this is?

UN/CEFACT XML

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





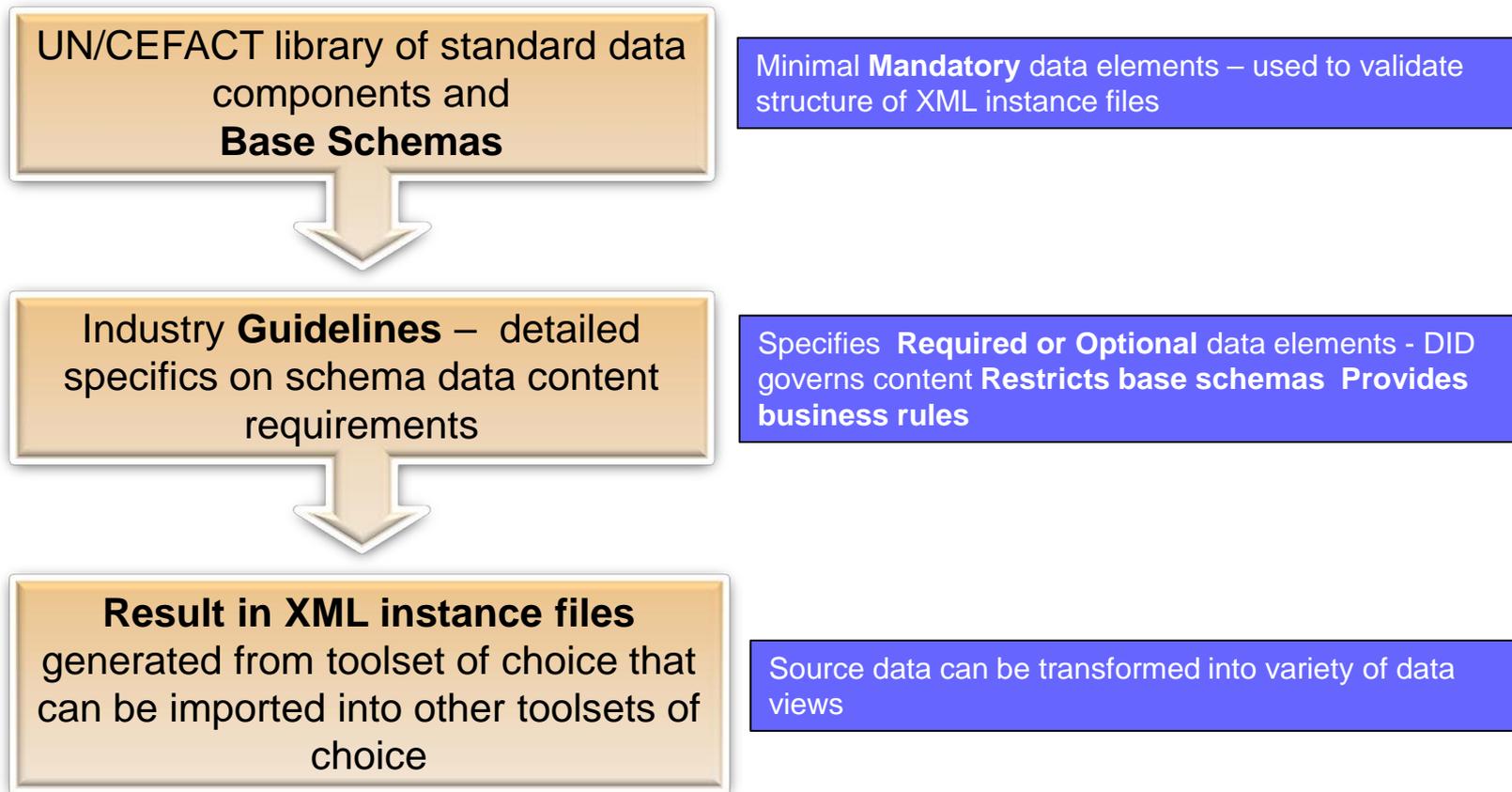
UN/CEFACT* XML & the IPMR

- ▶ 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
 - Three XML’s required (Cost, Schedule, Format 7)
- ▶ Exceptions
 - Variance analysis (Format 5) is in contractor format
 - Required 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





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>

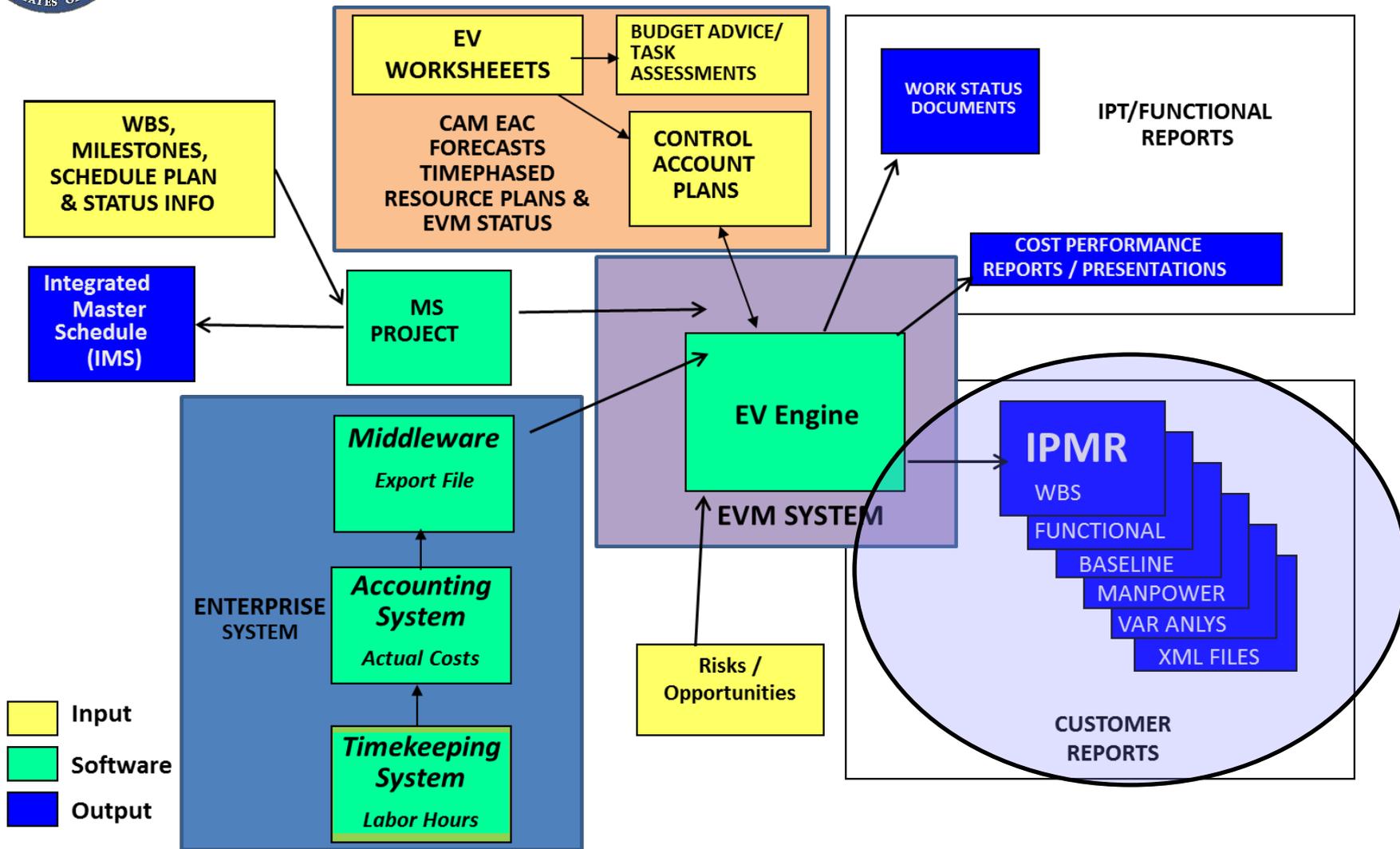
  <preparation>
    Stick a spoon in a jar of peanut-butter,
    scoop and pull out a big glob of peanut-butter.
  </preparation>

</recipe>
```



PARCA EVM

Example of Performance Reporting System





**PARCA
EVM**

TAILORING



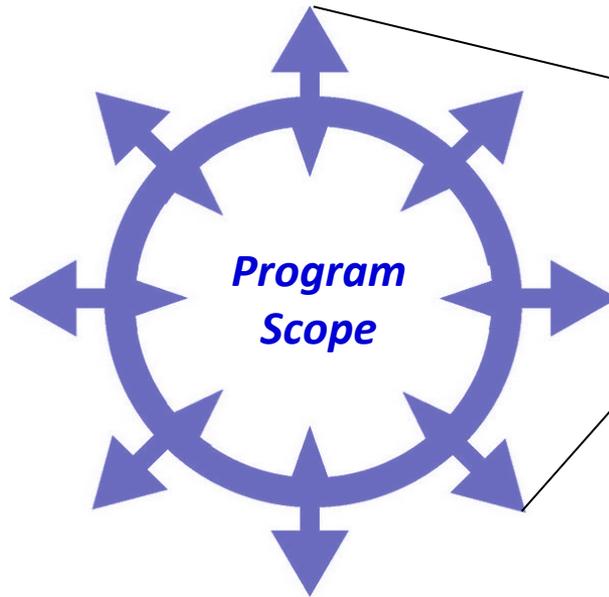
Tailoring

DoDI Interim 5000.02 states:

“the structure of a DoD acquisition program and the procedures used should be tailored as much as possible to the characteristics of the product being acquired, and to the totality of circumstances associated with the program including operational urgency and risk factors.”



Determining EVM Applicability



IPMR can be and should be tailored to meet programmatic needs

IPMR can be invoked / used without the requirement for "formal" EVM

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



Review of how the contract fits with the bigger picture of the overall Program



General Tailoring

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

- ▶ General Contract size guidance:
 - **Contracts >\$50M** = Full IPMR; tailoring based on full requirements

 - **Contracts >=\$20M but <\$50M** = Full IPMR; tailoring based on full requirements with potential for tailoring out Formats 2, 3, and 4

 - **Contracts <\$20M** = No formal IPMR requirement, but IPMR should be used if cost and/or schedule information is requested



PARCA EVM

Potential Tailoring Situations

- ▶ IDIQ
- ▶ Alternate WBS (non-881C)
- ▶ Actuals-only reporting
- ▶ IMS-only reporting
- ▶ IPMR no DFARS
- ▶ Subcontractor insight and reporting

PARCA & the Service / Agency EVM POCs should be consulted for EVM and IPMR tailoring



Tailorable Documents

- ▶ Once the decision to tailor has been made, the following documents may require modifications
 - Standard SOW EVM Language
 - WBS Structure
 - DD Form 1423 (CDRL)
 - IPMR Format / Report Data



PARCA EVM

**Tailoring is
noted in the
standard SOW
language for
EVM**

Standard SOW EVM Language

- Monthly cost and schedule reporting shall be provided using the tenants and reporting formats of Earned Value Management (EVM). EVM is required on the contract and will be provided for the duration of the contract.
- The EVM implementation shall be compliant with the following: a. Notice of Earned Value Management System (EVMS) (Apr 2008), DFARS 252.234-7001 b. EVMS (May 2011), DFARS 252.234-7002 c. Contractor Business Systems (May 2011), DFARS 252.242-7005
- EVM and Integrated Master Schedule reporting shall be compliant with the following: a. Integrated Program Management Report (IPMR), Data Item Description (DID) number DI-MGMT-81861 b. Contract Funds Status Report (CFSR), DID number DI-MGMT-81468 c. Reporting to the EVM Central Repository (EVM-CR)
- Tailoring of the EVM requirements language in the Statement Of Work and contractual EVM Contractor Data Requirement Lists (CDRLs) shall be coordinated with Performance Assessments and Root Cause Analyses (PARCA), the Service EVM focal point(s), and the PMO.
- Integrated Baseline Reviews (IBR) shall be conducted within 6 months of contract award or any large contract modifications and also subsequently following all major changes to the baseline.
- Development of the CSDR Cost Reporting Structure and the EVM reporting structure shall be defined jointly with OSD Cost Assessment and Program Evaluation (CAPE) and PARCA and documented in a joint CSDR/EVM plan, which will be included in the Request For Proposal (RFP). The two reporting structures will be consistent with Mil-Std-881C, unless approved jointly by both DCARC and PARCA. The PMO, CAPE, and PARCA will review these items with the Contractor in the post-award conference.



WBS Structure

MIL-STD-881C
APPENDIX F

F.3 WORK BREAKDOWN STRUCTURE LEVELS

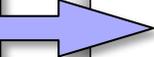
WBS #	Level 1	Level 2	Level 3	Level 4	Level 5
1.0	Space System				
1.1		SEIT/PM and Support Equipment (1...s) 1			
1.1.1			Systems Engineering		
1.1.2			Assembly, Integration and Test		
1.1.3			Program Management		
1.1.4			Support Equipment		
1.2		Space Vehicle 1..n (Specify)2			
1.2.1			SEIT/PM and Support Equipment		
1.2.1.1				Systems Engineering	
1.2.1.2				Assembly, Integration and Test	
1.2.1.3				Program Management	
1.2.1.4				Support Equipment	
1.2.2		Bus			
1.2.2.1				SEIT/PM and Support Equipment	
1.2.2.1.1					Systems Engineering
1.2.2.1.2					Assembly, Integration and Test
1.2.2.1.3					Program Management
1.2.2.1.4					Support Equipment
1.2.2.2				Structures and Mechanisms (SMS)	
1.2.2.2.1					SEPM
1.2.2.2.2					Assembly, Integration and Test
1.2.2.2.3					Support Equipment
1.2.2.2.4					Structures
1.2.2.2.5					Mechanisms and Pyrotechnics
1.2.2.2.6					SMS Other
1.2.2.3				Thermal Control (TCS)	
1.2.2.3.1					SEPM
1.2.2.3.2					Assembly, Integration and Test



DD Form 1423 (CDRL)

Tailoring is noted in the CDRL regarding the WBS & 881C

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)		
A. CONTRACT LINE ITEM NO.	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>
D. SYSTEM/ITEM	E. CONTRACT/PR NO. (Fill in when known)	F. CONTRACTOR (Enter Full name of Contractor)
<p>16. REMARKS (Continued)</p> <p>4. Block 16 - Remarks:</p> <p>4.1. Format 1 Instructions: Work Breakdown Structure (WBS) elements shall be reported in accordance with the approved MIL-STD-881 appendix (latest version at time of award) as tailored to meet the needs of the PMO. This is also known as the "Reporting Level."</p> <p>4.2. Format 2 Instructions: Provide the contractor's functional breakdown structure (e.g. Engineering, Manufacturing, Program Management, Quality, Test) or other organizational breakdown such as by Integrated Product Teams (IPTs). Material and major subcontractors with EVM System flow-down requirements shall be included as separate elements. No formal monthly variance analysis is required for Format 2, however, the contractor should correlate the variances in Format 1 to Format 2, as needed.</p> <p>4.3. Format 3 Instructions:</p> <p>4.3.1. Significant differences, absolute values exceeding +/- 5%⁵, between the Performance Measurement Baseline (PMB) at the beginning and end of each specified period by month and in total shall be explained in Format 5.</p> <p>4.3.2. Baseline change breakout should be by month for the next six months and [quarterly or yearly]⁶ thereafter.</p> <p>4.4. Format 4 Instructions:</p> <p>4.4.1. Significant changes that require explanations in Format 5 are those that change the absolute value of the projected total staff-months at completion of any organizational or functional category by more than +/-5%⁷.</p> <p>4.4.2. Staffing forecast should be by month for the next six months and [quarterly or yearly]⁸ thereafter.</p> <p>4.5. Format 5 Instructions:</p> <p>4.5.1. The variance analysis thresholds⁹ are:</p> <p>4.5.1.1. \$50K and 10% for current period cost or schedule variances.</p> <p>4.5.1.2. \$100K and 10% for cumulative cost or schedule variances.</p> <p>4.5.1.3. \$250K and 5% for at-complete variances.</p> <p>4.5.2. Narrative explanations required and variance thresholds will be reviewed periodically and may be adjusted by contract modification with no change in contract price.</p>		





PARCA EVM

IPMR Format / Report Data

Unclassified																		
CLASSIFICATION (When Filled)																		
INTEGRATED PROGRAM MANAGEMENT REPORT													PENDING UPDATE TO					
FORMAT 1 - WORK BREAKDOWN STRUCTURE										Dollars IN		OMB No. 0704-0188						
<p>The public reporting burden for this collection of information is estimated to average 3.1 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, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. 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 current valid OMB control number. PLEASE DO NOT RETURN YOUR FORM TO THIS ADDRESS. SUBMIT COMPLETED FORMS IN ACCORDANCE WITH CONTRACTUAL REQUIREMENTS.</p>																		
1. CONTRACTOR				2. CONTRACT				3. PROGRAM				4. REPORT PERIOD						
a. NAME				a. NAME				a. NAME				a. FROM (YYYYMMDD)						
b. LOCATION (Address and ZIP Code)				b. NUMBER				b. PHASE				b. TO (YYYYMMDD)						
				c. TYPE		d. SHARE RATIO		c. EVMS ACCEPTANCE (YYMMDD)										
5. CONTRACT DATA																		
a. QUANTITY		b. NEGOTIATED COST		c. ESTIMATED COST OF UNPRICED WORK		d. TARGET PROFIT / FEE		e. TARGET PRICE		f. ESTIMATED PRICE		g. CONTRACT CEILING		h. ESTIMATED CONTRACT CEILING		i. DATE OF DTB/OTS (YYYYMMDD)		
6. ESTIMATED COST AT COMPLETION																		
MANAGEMENT ESTIMATE AT COMPLETION (1)			CONTRACT BUDGET BASE (2)			VARIANCE (3)			7. AUTHORIZED CONTRACTOR REPRESENTATIVE									
									a. NAME (Last, First, Middle Initial)				b. TITLE					
a. BEST CASE									c. SIGNATURE				d. DATE SIGNED (YYYYMMDD)					
b. WORST CASE																		
c. MOST LIKELY																		
8. PERFORMANCE DATA																		
ITEM	CURRENT PERIOD						CUMULATIVE TO DATE						PROGRAMMING ADJUSTMENT			AT COMPLETION		
	BUDGETED COST		ACTUAL COST	VARIANCE			BUDGETED COST		ACTUAL COST	VARIANCE			COST	SCHEDULE	AT COMPLETION			
	WORK	WORK	WORK	SCHEDULE	COST		WORK	WORK	WORK	SCHEDULE	COST	VARIANCE	VARIANCE	BUDGET	ESTIMATE	VARIANCE		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12a)	(12b)	(13)	(14)	(15)	(16)		
a. WORK BREAKDOWN STRUCTURE ELEMENT																		
b. COST OF MONEY																		
c. GENERAL AND ADMINISTRATIVE																		
d. UNDISTRIBUTED BUDGET																		
e. SUB TOTAL																		
f. MANAGEMENT RESERVE (Performance Measurement)																		
g. TOTAL																		
9. RECONCILIATION TO CONTRACT BUDGET BASE																		
a. VARIANCE ADJUSTMENT																		
b. TOTAL CONTRACT VALUE																		
UPDATE FROM DD FORM 2734/1, MAR 05, PENDING APPROVAL																		
Unclassified																		
CLASSIFICATION (When Filled)																		
LOCAL REPRODUCTION AUTHORIZED.																		



Specific IPMR Tailoring

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



Specific IPMR Tailoring 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



Specific IPMR Tailoring 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



Integrated Program Management Report (IPMR) Recap

- All programs need program management, even if they don't use a full EVM implementation*
- EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.*
- Policy sets the direction and expectations for the implementation of Earned Value Management*
- The IPMR provides integrated cost and schedule data for visibility into drivers of performance, decision making, and situational awareness**
- The Government is serious about EVM and EV data is being used*



PARCA EVM

SUMMARY



PARCA EVM

Key PARCA EVM Themes Recap

- ☑ All programs need program management, even if they don't use a full EVM implementation
 - Earned Value Management (EVM) is a program management tool that provides data indicators that can be used on all programs to enable proactive decision making throughout the program lifecycle and facilitate communication across the program team
- ☑ EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.
 - Each team member, including program management, systems engineering, logistics, and manufacturing plays a role in the execution of the program plan and directly contributes to the achievement of program milestones and goals, but each discipline speaks its own language; the WBS facilitates communication across the program
 - Upfront planning is important to establish technical program expectations and flow down technical success criteria to the program baseline; EVM metrics should naturally flow from the technical plan



PARCA EVM

Key PARCA EVM Themes Recap

- Policy sets the direction and expectations for the implementation of Earned Value Management
 - Policy and guidance standardizes EVM requirements, oversight, and governance across the Department
- The IPMR provides integrated cost and schedule data to provide visibility into drivers of performance for decision making and situational awareness
 - Each program has unique attributes that should be considered when determining program management and reporting requirements, including, but not limited to, contract size and type, scope of work, complexity, risk, technology maturity, and resource requirements
 - In program management, one size does not fit all; integrated program management techniques, including performance measurement and scheduling can be tailored to what makes sense for each program
- The Government is serious about EVM and EV data is being used
 - The EVM-CR is the authoritative source of EVM reporting for the Department for ACAT 1 programs
 - DAMIR pulls EVM-CR data directly as the authoritative source of EVM data for DAES Reporting



**PARCA
EVM**

Contact Information

How to contact us:

Karen Kostelnik: karen.a.kostelnik.ctr@mail.mil

David Nelson: david.a.nelson354.ctr@mail.mil

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

PARCA EVM Email: osd.pentagon.ousd-atl.mbx.evm-interpretation@mail.mil

OR osd.pentagon.ousd-atl.mbx.parca-evm@mail.mil



**PARCA
EVM**

QUESTIONS??



**PARCA
EVM**

PARCA EVM CENTRAL REPOSITORY TRAINING

PARCA / CAPE Co-Training

Orlando, FL

November 19, 2014



PARCA EVM

Training Objectives

- ▶ Define the purpose of the EVM-CR
- ▶ Describe the Mission & Operations of the EVM-CR
- ▶ Describe Data Quality & Reporting Compliance



PARCA EVM

Agenda

- ▶ EVM-CR Overview
- ▶ Submit / Review Process
- ▶ What Happens to Submissions
- ▶ Reporting Compliance & Data Quality
- ▶ Mission & Operations
- ▶ Dashboard



PARCA EVM

Key PARCA EVM Themes

- ☑ All programs need program management, even if they don't use a full EVM implementation
- ☑ EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.
- ☑ Policy sets the direction and expectations for the implementation of Earned Value Management
- ☑ The IPMR provides integrated cost and schedule data for visibility into drivers of performance, decision making, and situational awareness
- ☐ The Government is serious about EVM and EV data is being used



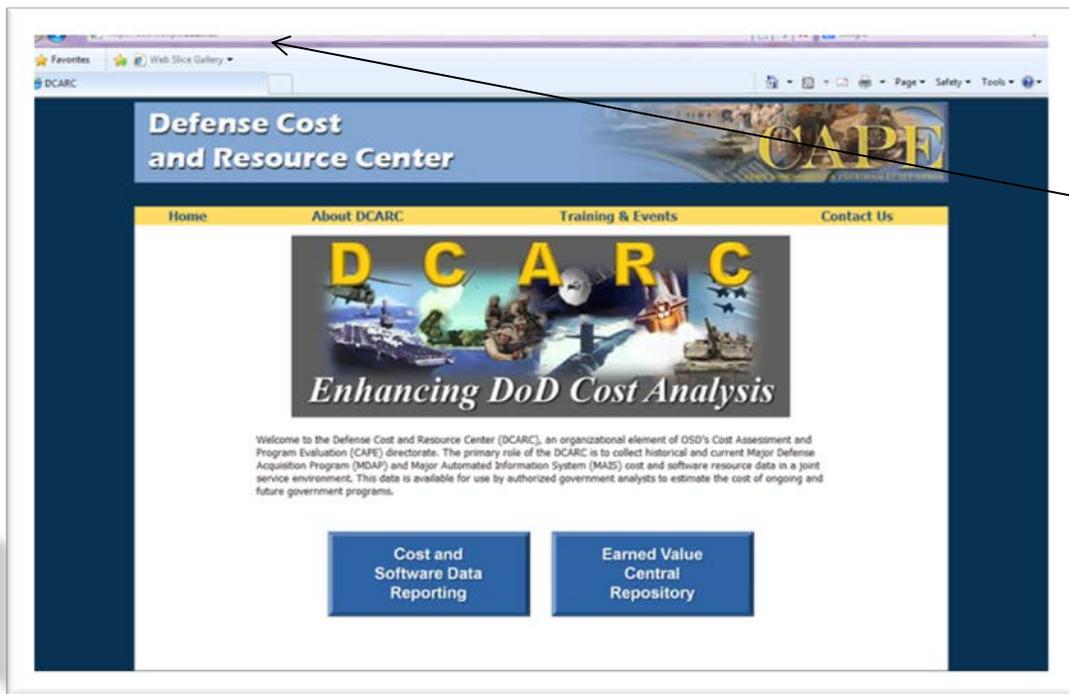
**PARCA
EVM**

EVM-CR OVERVIEW



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/>~~

<http://cade.osd.mil/>



PARCA EVM

EVM-CR Requirement

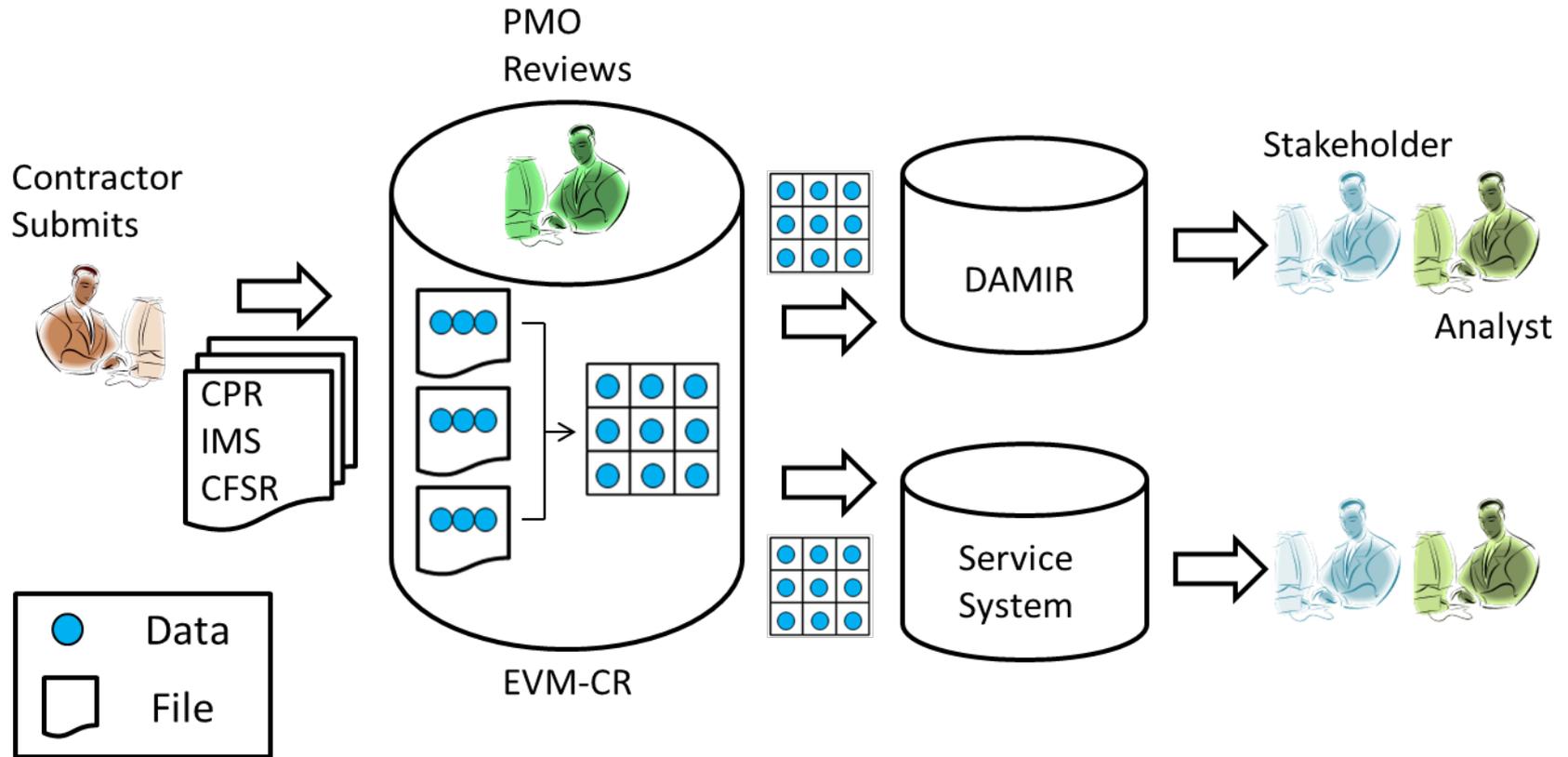
- ▶ ACAT 1A, 1C and 1D program/contracts with EVM reporting requirements are required to submit to the EVM-CR
 - Cost and schedule data expected monthly (IPMR)
 - Contract Funds Status Report (CFSR) expected quarterly
 - OUSD(AT&L) / PARCA has offered other ACATs access to submit
 - Reporting location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

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



PARCA EVM

Data Flow – Submit, Review, Access





PARCA EVM

Data Access

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

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

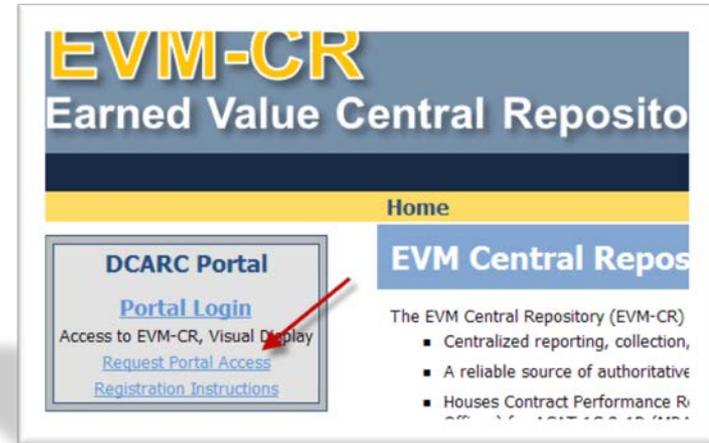
- ▶ Summary data extracted by OSD DAMIR system for use in DAES process



PARCA EVM

Requesting Data Access

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



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



PARCA EVM

General Roles

▶ EVM-CR Analyst

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

▶ Submitter

- Performing contractor personnel who upload data files

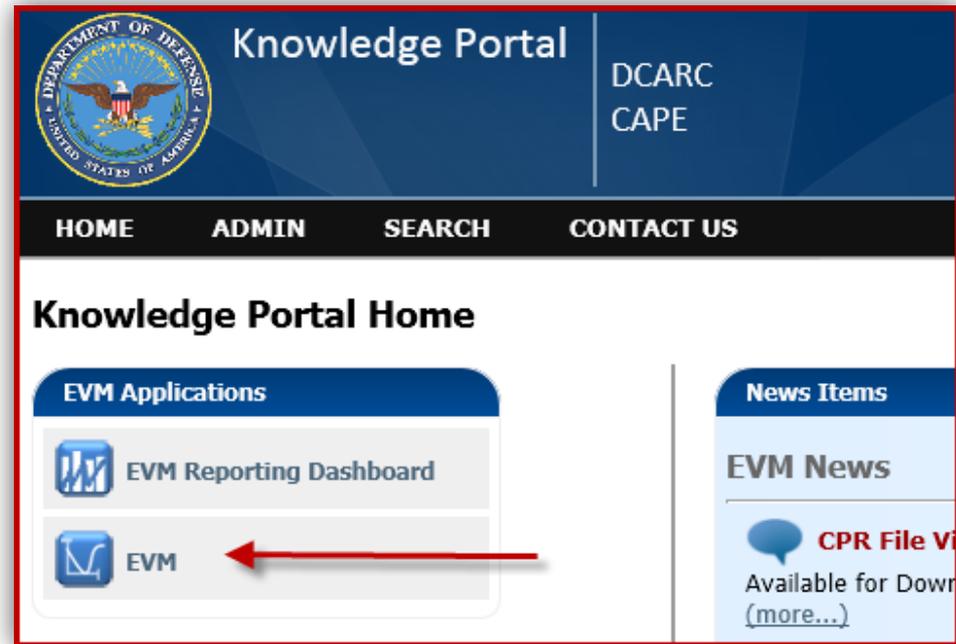
▶ Reviewer

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



Accessing the EVM Website

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





**PARCA
EVM**

SUBMIT & REVIEW PROCESS



Lead Reviewer: Program Setup

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



Submitter Duties

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



PARCA EVM

Submission Steps / Status

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

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

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

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



PARCA EVM

Notes on Submissions

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



PARCA EVM

Upload Home

Knowledge Portal | PARCA

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

Upload Home

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

Submit | Task Submission Status | Assigned Contracts | Submission History

Continue Existing Submissions

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

Start New Submission on Task

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

Navigation

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



Submit Process Step 1: Upload Home

Select "Continue" or "Start Submission"

Upload Home

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

Submit

Task Submission Status

Assigned Contracts

Submission History

Continue Existing Submissions

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

Start New Submission on Task

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



Submit Process Step 2: Upload Submission

Back | Cancel Submission

Upload Submission

Program: **Example**

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

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

Files

Unclassified Documents Only

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

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

Select a file to Upload

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

[no files selected]

Browse

Please select a File Type

File Comment:

Upload

Uploaded Files

There are no files uploaded for this submission.



Submit Process Step 3: Upload Files

Upload one or more files to a submission

- Identify file type
- Provide comment

Typical Example of IPMR Cost Submission

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

Back | Cancel Submission

Upload Submission

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

Files | CPR Data | Review & Submit

Next Step

Unclassified Documents Only

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

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

Select a file to Upload
 Caution: The total size of each file must be less than 300 mb.

Please select a File Type File Comment:



PARCA EVM

Step 3a: Review Data

Back Cancel Submission

Upload Submission

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

Files CPR Data Review & Submit

Processed File

Submission Options

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

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

Continue

Choose an option and click continue

File Details

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

Current Period Information

Current Period

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

Report Information

Program Name	Phase	Contract Number	Contract Type

Contractor	Maximum WBS Level	CPR ID	Final CPR
	3	173110	Yes

CPR Header Dollars in Thousands

Quantity	Share Above	Share Below	Original NCC	NCC
	50	75		

CBB	TAB	AIW	Contract Ceiling	Estimated Ceiling

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

Variations

At Complete	Cumulative Schedule	Cumulative Cost	Total Schedule	Total Cost

CPR Dates

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

Performance Measurement Baseline (PMB)

HR	BAC	EAC	BCWS	BCWP	ACWP	CPI	SPI

Over Target Baseline (OTB)

OTB Date	BAC Adjustment	SV Adjustment	CV Adjustment	HR Adjustment

Calculated Fields

DAMIR Validation Failures

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

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

Data Validation Warnings

Further warnings detected within the data.

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

Submission Data Quality Validation Reports

Download Report

Data Validation Report

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

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



PARCA EVM

Step 4: Review & Submit

Back | Cancel Submission

Upload Submission

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

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

Submission Information

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

Contract Tasks: Task 1, test 2

Contract Type: Unknown **Start Date:** **End Date:** **Stops Contract Reporting?:** No **EDI Required On Contract?:** No

Submission Details

Report Date: 6/23/2010
Is Draft:
Comment:
(Max 256 chr.)

Point of Contact Information

Name: test Jen
Phone: 1234
Fax: 1233
Email: est@tc.c
[Update Contract Task POC](#)

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

Uploaded Files

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

Submit

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



PARCA EVM

Government Review Process

- ▶ Review team notified of submission

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

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



Review Submissions

Submission Review Home

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

Submission Review Home

Submissions Task Submission Status Contracts Submission History

Pending Submissions

Submissions Filtered By My Review Decisions:

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



EVM-CR Submission & Review Functions

Submission Detail

Program: [Example](#)
Contract Number: N0000-00-N-0000
Submission ID: 23468
Contract Task: Task 1

Contract Submission **Files** Reviewers Comments

Submission Files

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

[View Submission CPRs](#)

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

Reviewer Files

There are no reviewer files uploaded for this submission.

Select a file to Upload

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

[no files selected]

File Comment:



**PARCA
EVM**

Reviewing Submission Details

Submission Detail

Program: [Example](#)

Contract Number: N0000-00-N-0000

Submission ID: 23468

Contract Task: Task 1

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

Submission Files

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

[View Submission CPRs](#)

Reviewer Files

There are no reviewer files uploaded for this submission.

Select a file to Upload

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

File Comment:

File Details

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

Current Period Information

Current Period

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

Report Information

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

CPR Header Dollars in

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

Variances

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

CPR Dates

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

Performance Measurement Baseline (PMB)

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

Over Target Baseline (OTB)

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

Calculated Fields

DAMIR Validation Failures

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

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

Data Validation Warnings

Further warnings detected within the data.

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

Navigate File Periods

1 of 1 >>

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

Report Links

[Data Quality Validation](#)



Reviewing a Submission

Record your decision and make comments

Contract Submission Files **Reviewers** Comments

Submission Reviewers

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

Save

Lead Reviewer can change status of submission

Lead Reviewer Actions

- Set Status to Submitting
- Alert Managerial Oversight
- Publish Submission
- Reject Submission

Days To AutoPub: 10



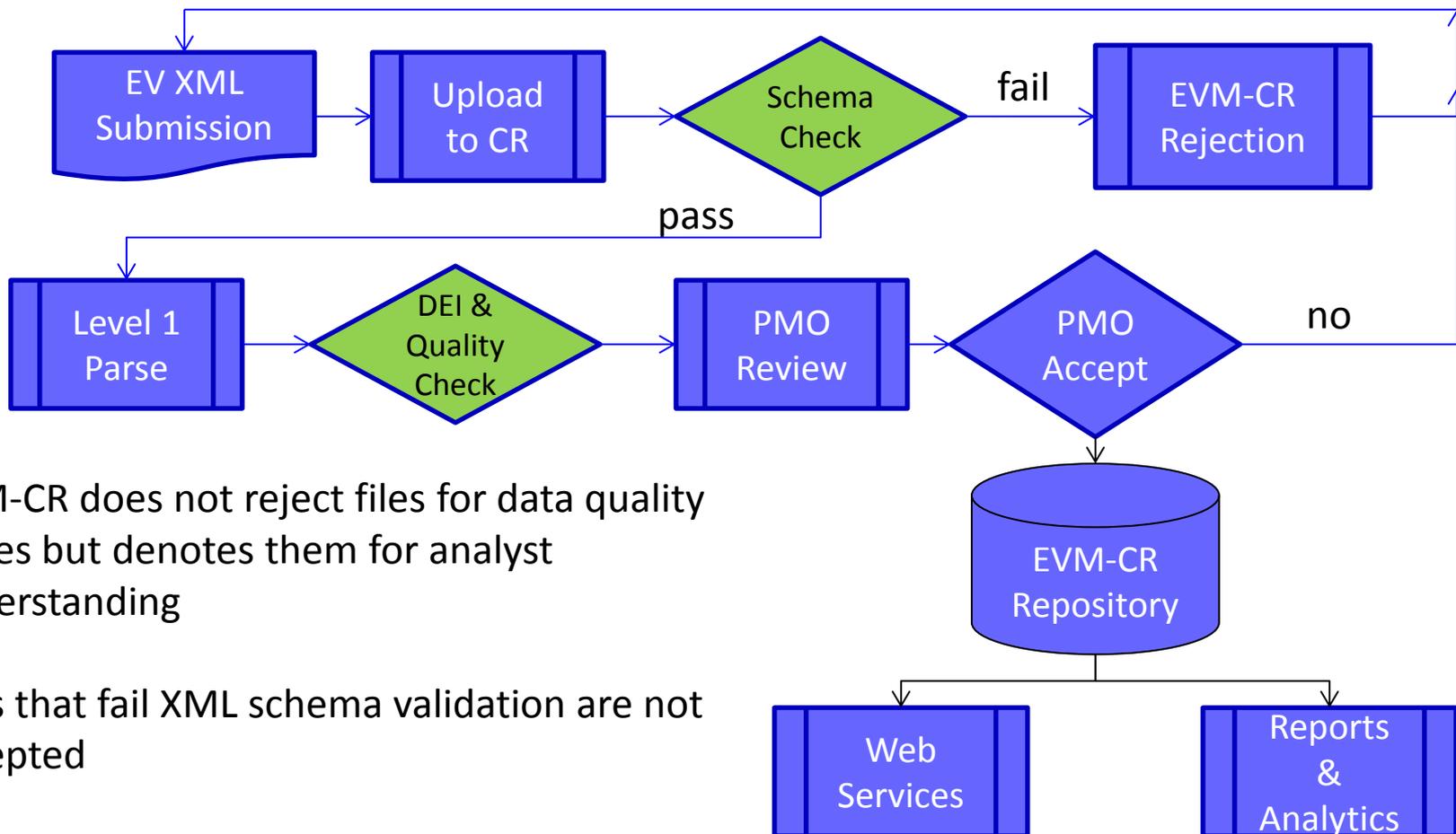
**PARCA
EVM**

WHAT HAPPENS TO SUBMISSIONS



Submission Handling Overview

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



Consuming The Data To Tell The Story

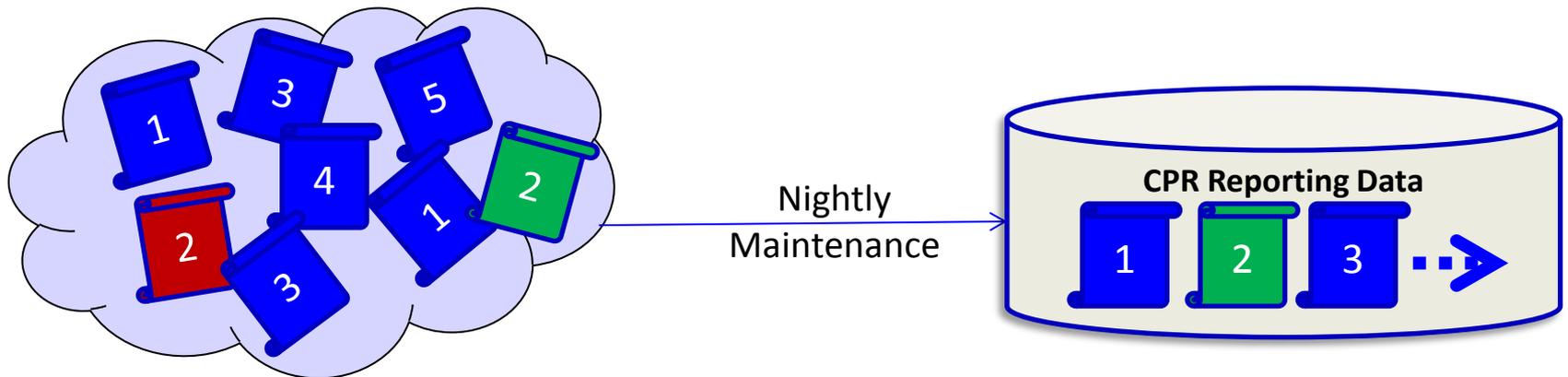
- ▶ Submission files cover 1 or more time-periods



- ▶ Night-time Data Processing and Maintenance

- Build “CPR Time Table”: Identify which CPR records for a given contract/task will be used to cover all reporting time-periods
- Build CPR Reporting Data: Merge identified CPR records to form Reporting Data

Raw CPR Time Period Records





**PARCA
EVM**

REPORTING COMPLIANCE AND DATA QUALITY



PARCA EVM

Program Delivery Status

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



Reports & Metrics

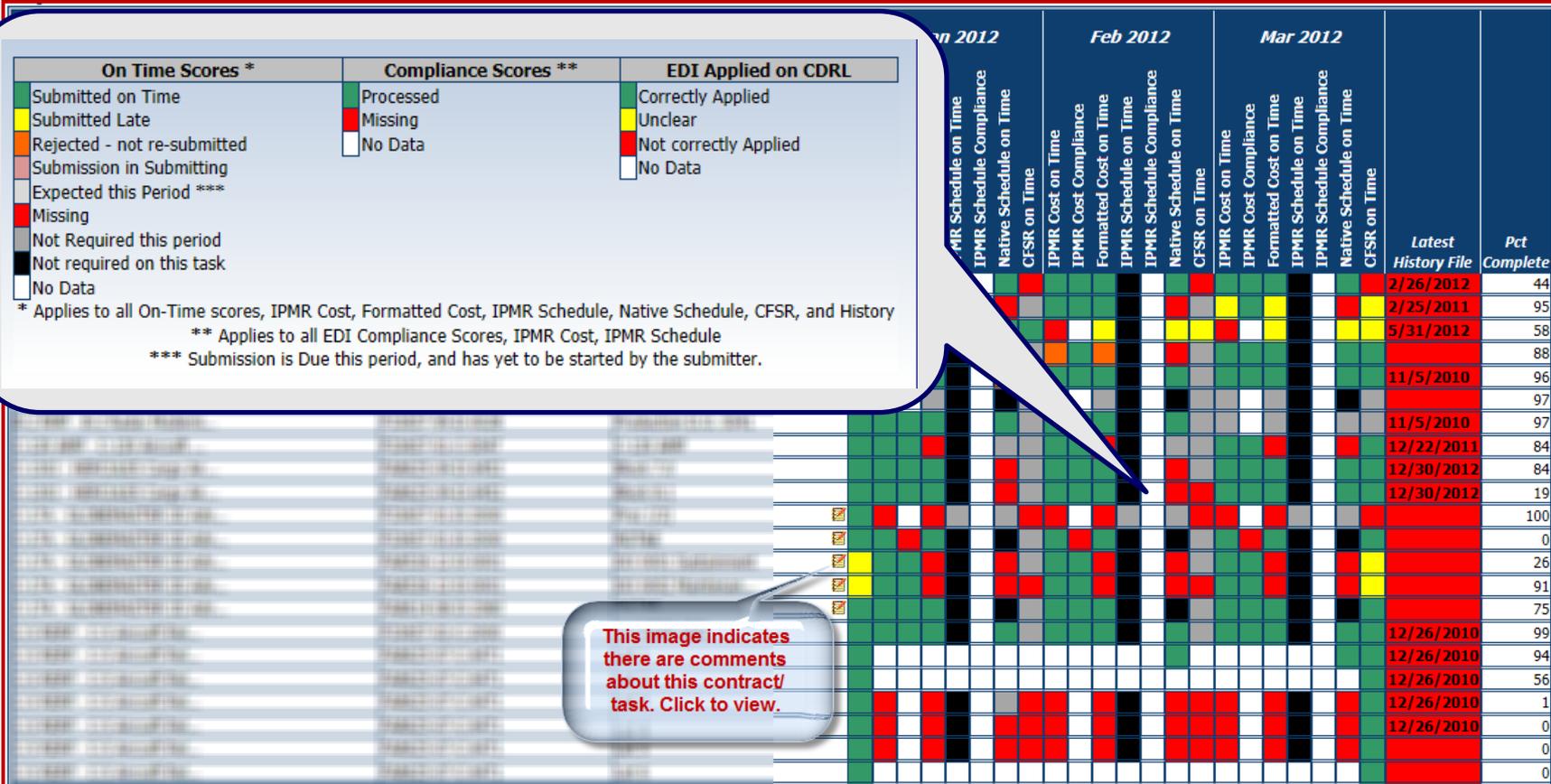
- ▶ Available from the EVM-CR Reports & Metrics tab:
 - CPR Data Report – The CPR Data Report allows you to view contract CPR Data for all available periods in a grid form
 - EVM-CR Reporting Compliance and Data Quality Assessment Report – This report displays a snap-shot view of assessments for all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

- ▶ Real Time Reporting and Analysis: CADE Total Access



PARCA EVM

Program Status Report



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



**PARCA
EVM**

Delivery Compliance Categories

	IPMR Cost on Time
	IPMR Cost Compliance
	Formatted Cost on Time
	IPMR Schedule on Time
	IPMR Schedule Compliance
	Native Schedule on Time
	CFSR on Time

Sep 2014



Reporting Compliance and Data Quality Assessments Report

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

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



PARCA EVM

Reports & Metrics: CPR Data Report

- ▶ When selecting the CPR Data Report search/filter screen similar to that shown to the right is presented
- ▶ Enter search criteria, then click the program name
- ▶ Select task name, then the report below is presented

CPR Data Selector

Search/Filter Programs

Program: Contract #: Commodity Group:

Submission ID: Service: DAES Group: ACAT:

Hide Programs

Programs

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

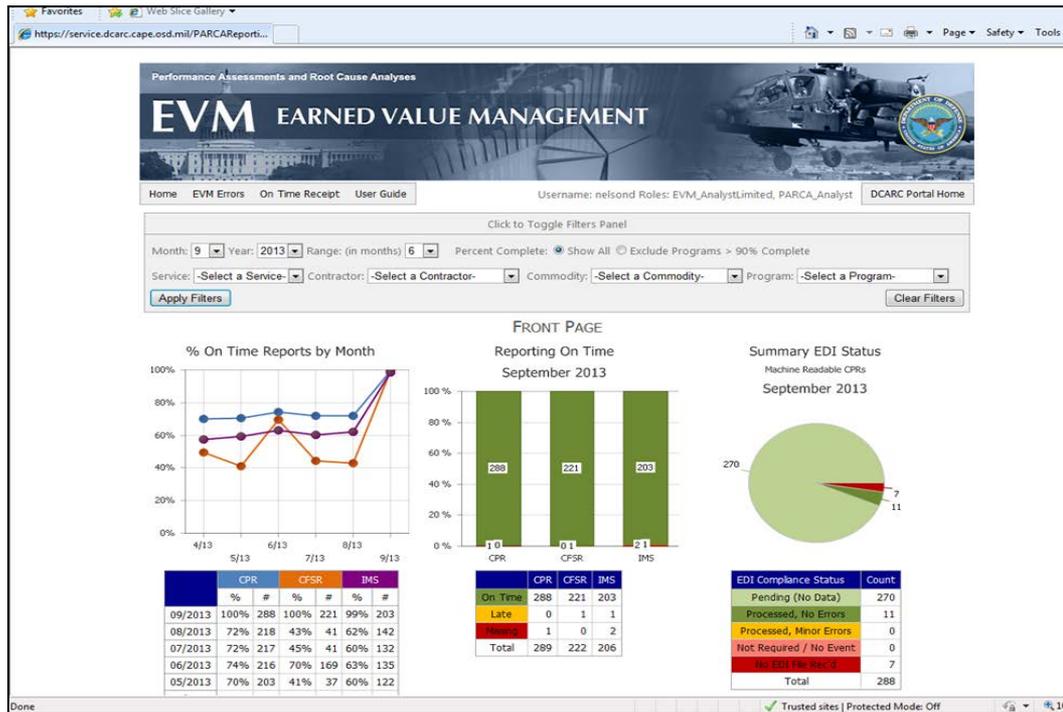
1 2 3 4 5 6 7 8

Year	Month	EffectiveDate	ReportFrom	StartDate	DefinitizationDate	CompletionDate	ECD	BudgetCompletionDate	Quantity	ShareAbove	ShareBelow	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							



EVM-CR Dashboard

Dashboard Represents data delivery status across the EVM-CR



- Access to a variety of metrics and reports in real time
- Drill down customizable reports
- Details of non-compliant programs
- Data errors and business rules
- Program status by Count / or cost
- On-time report trends

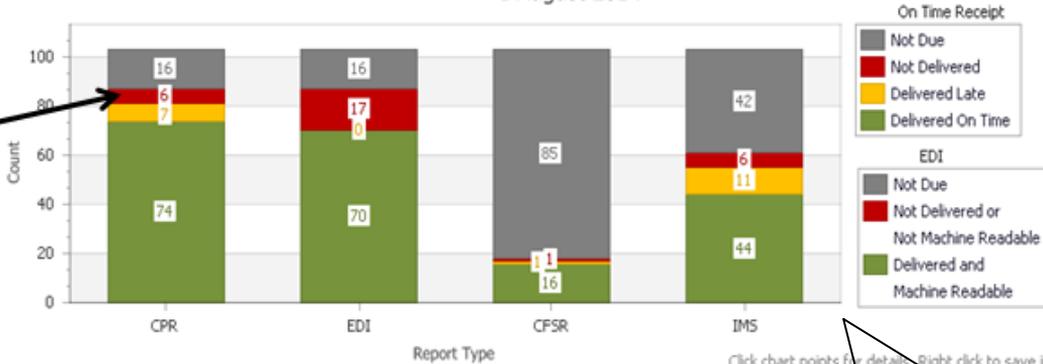


Dashboard Details

Chart Type: **StackedBar** Count/Cost: **Count**

Report Status

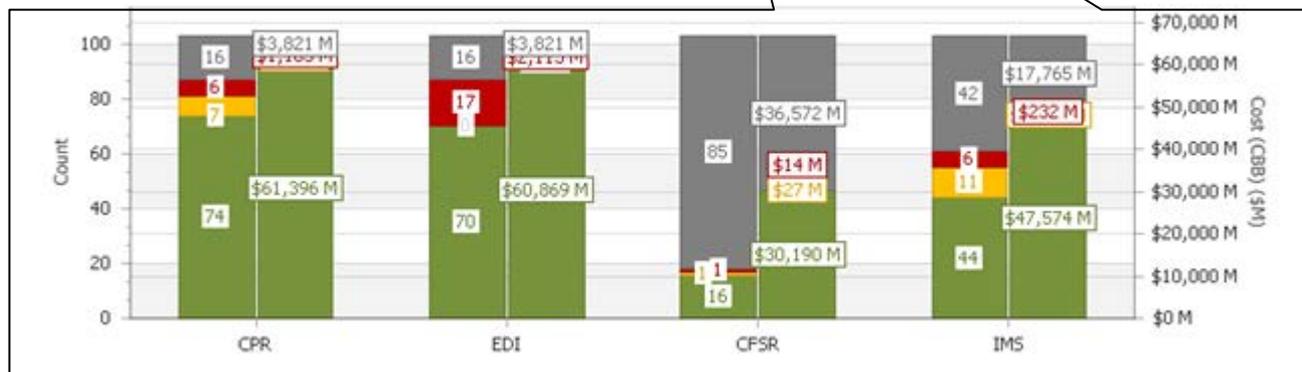
August 2014



Click in the area to see the details.

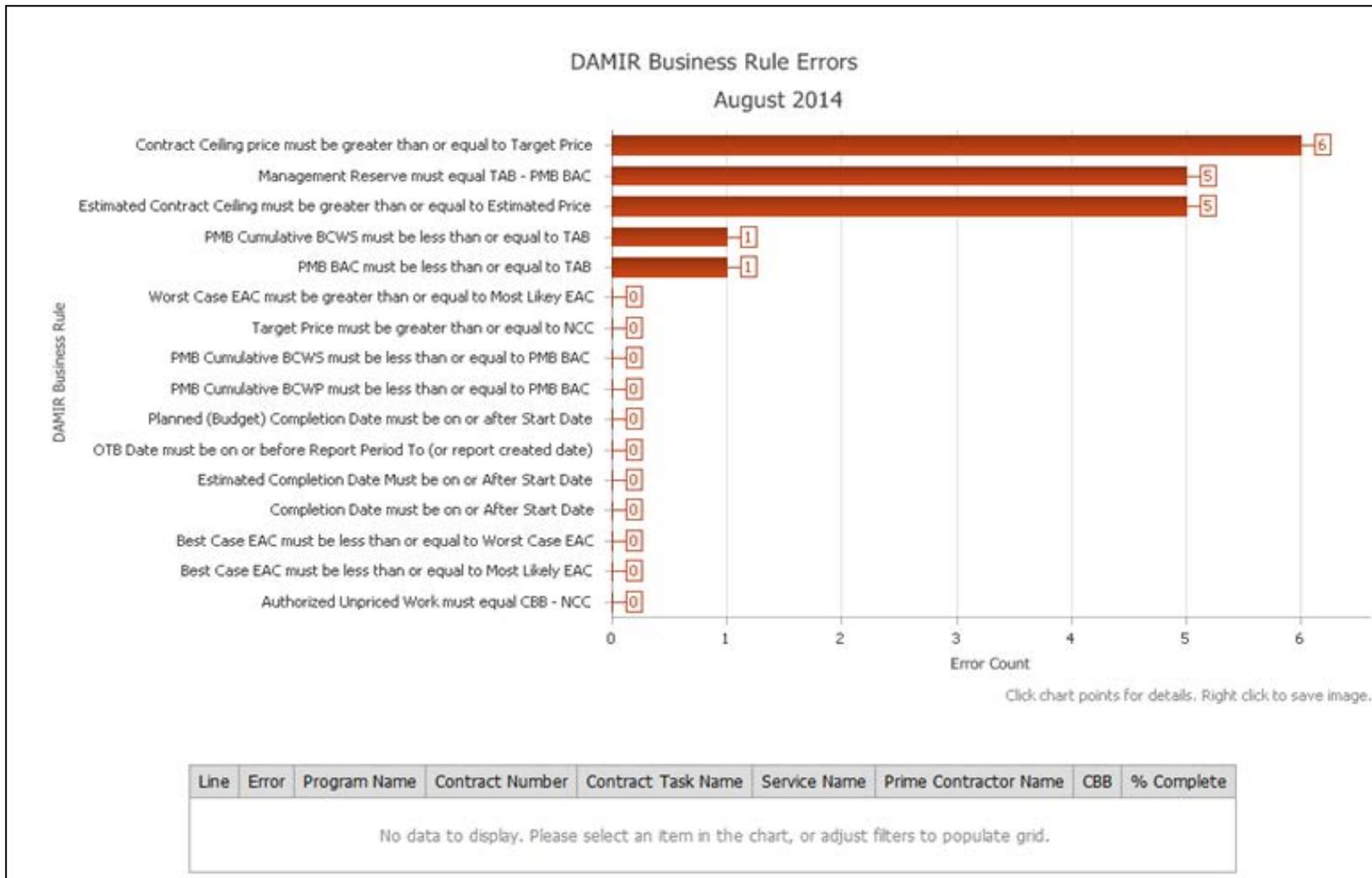
Not Delivered CPR August 2014

Line	Program Name	Contract Number	Contract Task Name	Service Name	Commodity	Prime Contractor Name	CBB	% Complete
1	AMPMAT - Advanced							





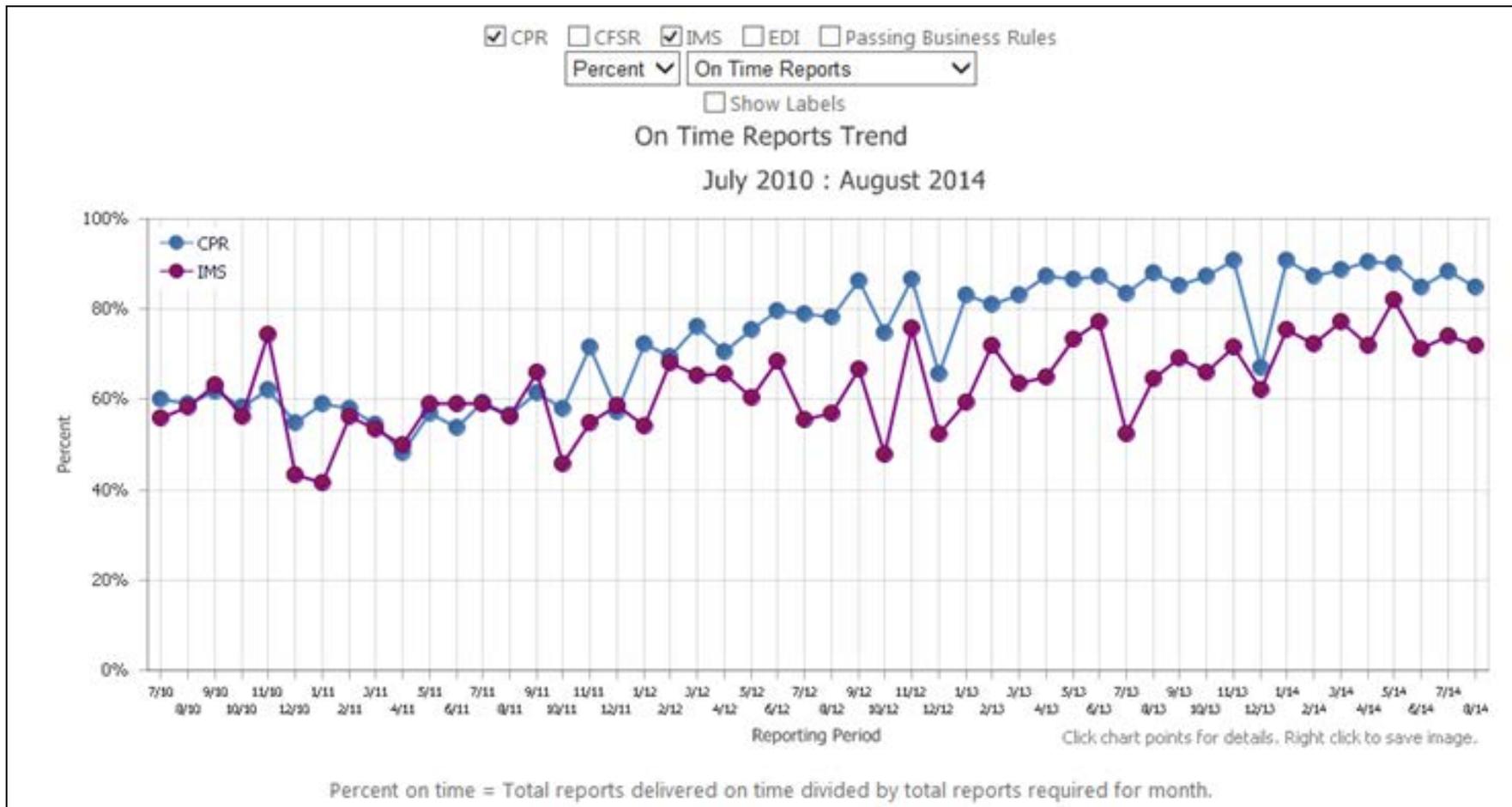
Business Rules Summary and Details





PARCA EVM

On Time Report Trends





**PARCA
EVM**

MISSION & OPERATIONS



EVM-CR Day-to-Day Operations

- ▶ EVM-CR Mission: Deliver timely, accurate data

- ▶ Oversight Functions
 - Reporting Compliance - Program Status Report
 - Measure submissions against CDRL requirements
 - Key issue: Red status on EDI compliance
 - Data Quality
 - CPR Data Report Checks
 - Look for missing dates (dropped report periods)
 - Numbers with bad scale
 - CADE Analytics
 - Performance of time chart (Snake Chart) – sanity check for common mistakes



**PARCA
EVM**

Program Review Log

Program	Review Date	CPR Data Report	CADE	Missing Periods	Component /Total	Notes
...	10/3/2014	BAD	BAD	GOOD	GOOD	...
...	10/3/2014	GOOD	GOOD	GOOD	GOOD	...
...	10/3/2014	GOOD	BAD	GOOD	BAD	...
...	10/10/2014	GOOD	GOOD	GOOD	GOOD	...
...	10/10/2014	GOOD	GOOD	BAD	GOOD	...
...	10/10/2014	GOOD	GOOD	GOOD	GOOD	...
...	10/10/2014	GOOD	GOOD	GOOD	GOOD	...
...	10/13/2014	GOOD	GOOD	GOOD	GOOD	...
...	10/13/2014	GOOD	GOOD	GOOD	GOOD	...
...	10/14/2014	N/A	N/A	BAD	N/A	...



PARCA EVM

CPR Data Report

Program: Death Star P... Task 1

(Cost values are in do

Missing Periods?

Year	Month	BudgetCompletionDate	Quantity	ShareAbove	ShareBelow	OriginalNCC	NCC	MostLikelyEAC	BestCaseEAC	WorstCaseEAC	TargetPrice					
2009	7	7/4/2009	12/22/2008	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,792,188	1,621,059,733	1,581,793,227	1,652,000,418	1,870,766,514
2009	8	8/1/2009	7/4/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,792,188	1,621,059,733	1,581,792,728	1,651,999,883	1,870,766,514
2009	8	8/29/2009	8/1/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,792,188	1,621,074,704	1,598,751,379	1,652,014,802	1,870,784,414
2009	10	10/3/2009	8/29/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,792,188	1,589,850,757	1,567,612,832	1,620,389,301	1,866,551,354
2009	10	10/31/2009	10/3/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,792,188	1,590,511,232	1,568,241,232	1,621,082,901	1,867,191,754
2009	11	11/28/2009	10/31/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,792,188	1,589,947,737	1,567,680,737	1,620,464,353	1,866,996,954
2009	12	12/31/2009	11/28/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,799,288	1,588,229,816	1,566,205,816	1,618,537,011	1,864,310,174
2010	1	1/30/2010	12/31/2009	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,799,288	1,587,871,896	1,565,866,656	1,618,160,272	1,864,570,864
2010	2	2/27/2010	1/30/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,799,288	1,587,203,755	1,565,236,382	1,617,458,065	1,864,338,824
2010	4	4/3/2010	2/27/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,933,888	1,593,189,180	1,571,520,695	1,623,274,422	1,862,058,534
2010	5	5/1/2010	4/3/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,933,888	1,593,208,811	1,571,552,663	1,623,418,791	1,862,080,064
2010	5	5/29/2010	5/1/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,933,888	1,593,209,804	1,571,553,656	1,623,419,790	1,862,080,764
2010	7	7/3/2010	5/29/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,933,888	1,570,151,644	1,548,418,445	1,600,266,296	1,858,278,204
2010	7	7/31/2010	7/3/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,933,888	1,570,451,494	1,548,714,167	1,600,561,979	1,858,626,064
2010	8	8/28/2010	7/31/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,536,995,988	1,605,278,335	1,600,635,335	1,633,605,471	1,860,838,524
2010	10	10/2/2010	8/28/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,537,276,888	1,593,215,837	1,588,505,837	1,623,910,023	1,858,895,284
2010	10	10/30/2010	10/2/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,538,037,188	1,592,742,982	1,589,040,982	1,627,970,920	1,858,355,094
2010	11	11/27/2010	10/30/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,538,153,688	1,592,804,945	1,589,304,945	1,628,028,869	1,858,427,754
2010	12	12/25/2010	11/27/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,538,689,488	1,594,670,561	1,590,967,561	1,629,711,117	1,857,960,694
2011	1	1/29/2011	12/25/2010	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,538,782,588	1,595,041,713	1,591,304,713	1,629,858,363	1,858,391,734
2011	2	2/26/2011	1/29/2011	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,539,558	1,595,914,911	1,592,178,911	1,630,733,651	1,859,308,334
2011	4	4/2/2011	2/26/2011	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,539,288	1,604,540,077	1,600,804,077	1,632,708,374	1,856,757,194
2011	4	4/30/2011	4/2/2011	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,539,236,788	1,604,579,477	1,600,850,477	1,633,030,893	1,856,804,524
2011	5	5/28/2011	4/30/2011	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,539,236,788	1,605,911,886	1,602,979,886	1,633,919,977	1,858,541,524
2011	7	7/2/2011	5/28/2011	12/20/2008	12/20/2008		12/20/2016	12/20/2016	1		1,536,792,891	1,539,670,588	1,594,131,653	1,591,597,653	1,625,039,656	1,857,552,734

Sanity check data



EVM-CR Recap

- ▶ *All programs need program management, even if they don't use a full EVM implementation*
 - ▶ *EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.*
 - ▶ *Policy sets the direction and expectations for the implementation of Earned Value Management*
 - ▶ *The IPMR provides integrated cost and schedule data to provide visibility into drivers of performance for decision making and situational awareness*
- The Government is serious about EVM and EV data is being used



**PARCA
EVM**

QUESTIONS ?

EVM CR Support:

Jen Horner: 253-564-1979 ext 1
jhorner@tecolote.com

Thea Kelleher: 703-697-3770
thea.m.kelleher.ctr@mail.mil



**PARCA
EVM**

BACKUP



**PARCA
EVM**

IPMR DATA UTILITIES



Current IPMR Submission Status

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

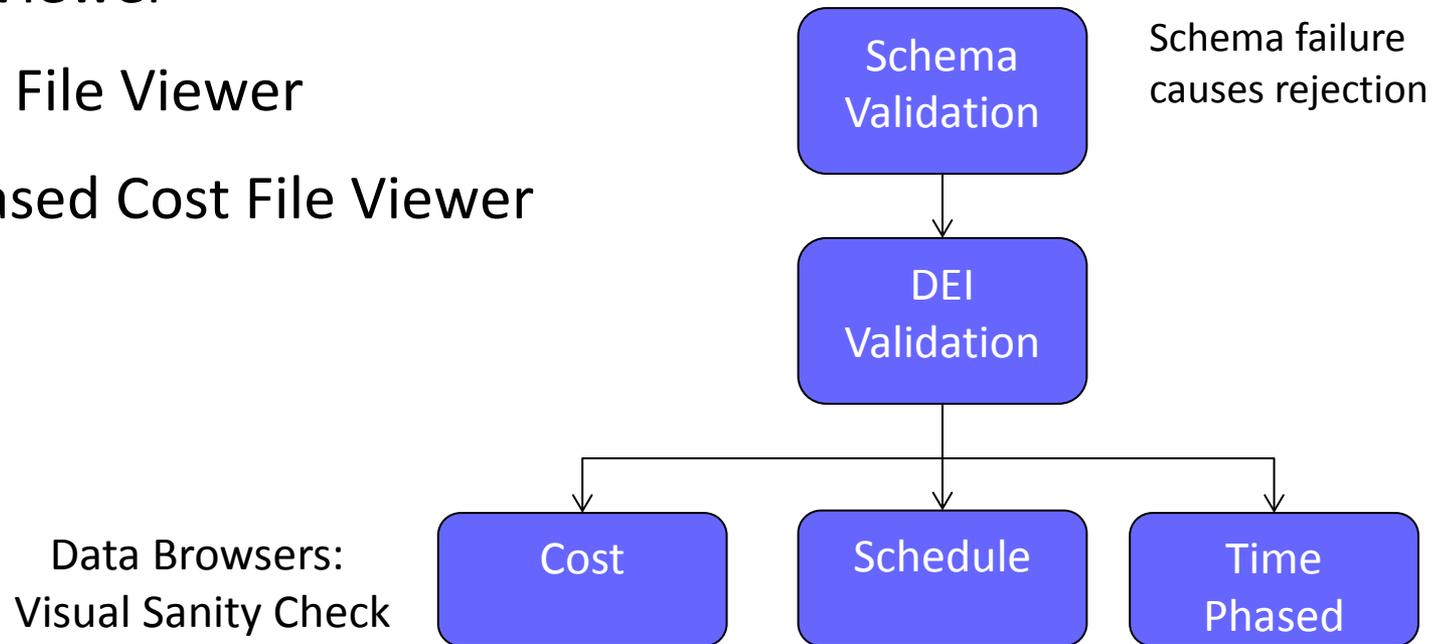
▶ Legend:

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



IPMR XML File Utilities Overview

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

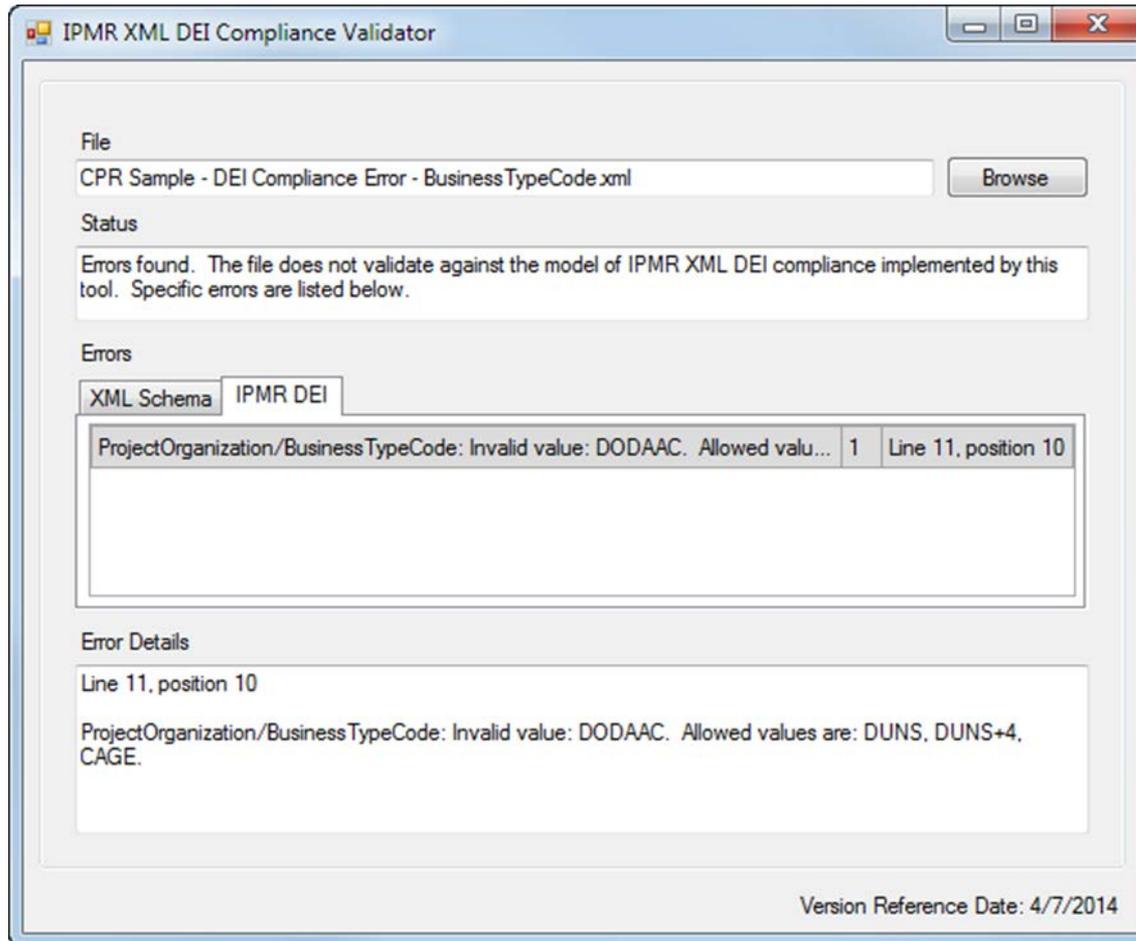


Encapsulate software libraries used by EVM-CR

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



Schema / DEI Validator



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



PARCA EVM

IPMR Data Viewers: Cost

CPR File Viewer

File Navigate Options Help

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

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

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

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

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

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

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

Version 1.0.3.4

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



IPMR Data Viewers: Schedule

IPMR XML IMS File Viewer

Open Files | Browse File Data | About

IMS Sample.xml

Export To Excel: Current Table | All Tables

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

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

Task

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



IPMR Data Viewers: Time Phased Cost

IPMR XML Time-Phased Cost File Viewer

Open Files | Browse File Data | About

TPC Sample.xml

Header | Summary Costs | WBS Costs

By Period | By Element

Units: Dollars

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



Using EV at OUSD(AT&L)

What do they do with all of that data?

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

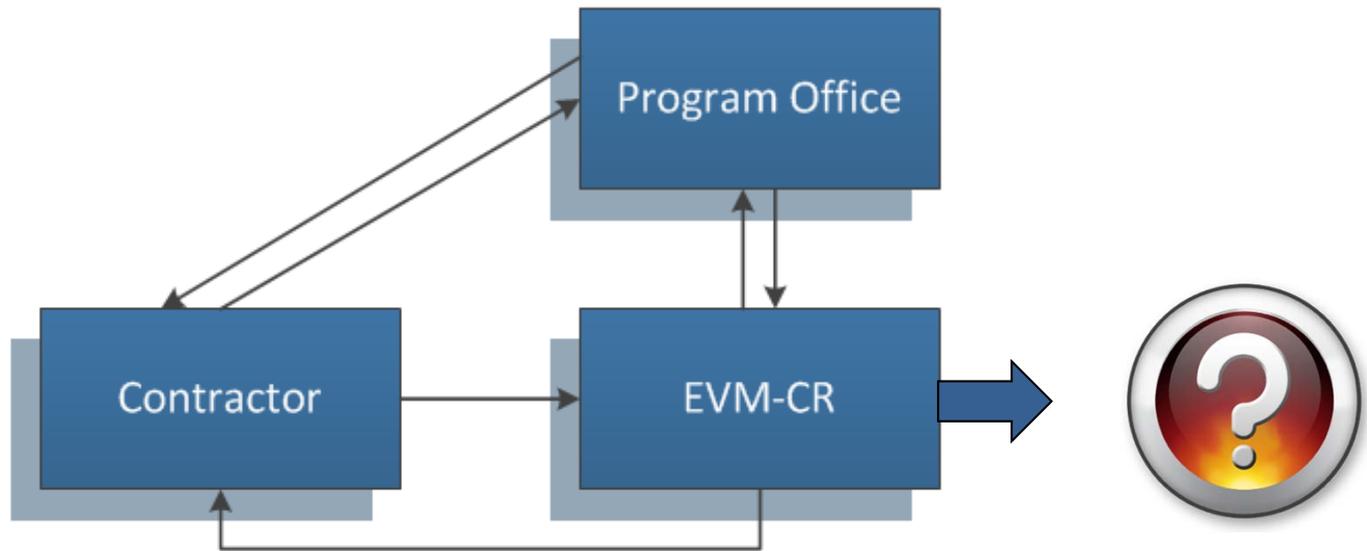


Key PARCA EVM Themes

- All programs need program management, even if they don't use a full EVM implementation
- EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.
- Policy sets the direction and expectations for the implementation of Earned Value Management
- The IPMR provides integrated cost and schedule data for visibility into drivers of performance, decision making, and situational awareness
- The Government is serious about EVM and EV data is being used



What happens to EV data after its submitted to the EVM-CR?





Outline

- ▶ The USD (AT&L) and EV
- ▶ What Happens to EV Data after the EVM-CR?
 - USD(AT&L) CEOs Meetings
 - Defense Acquisition Executive Summary (DAES)
- ▶ Other Analysis Examples

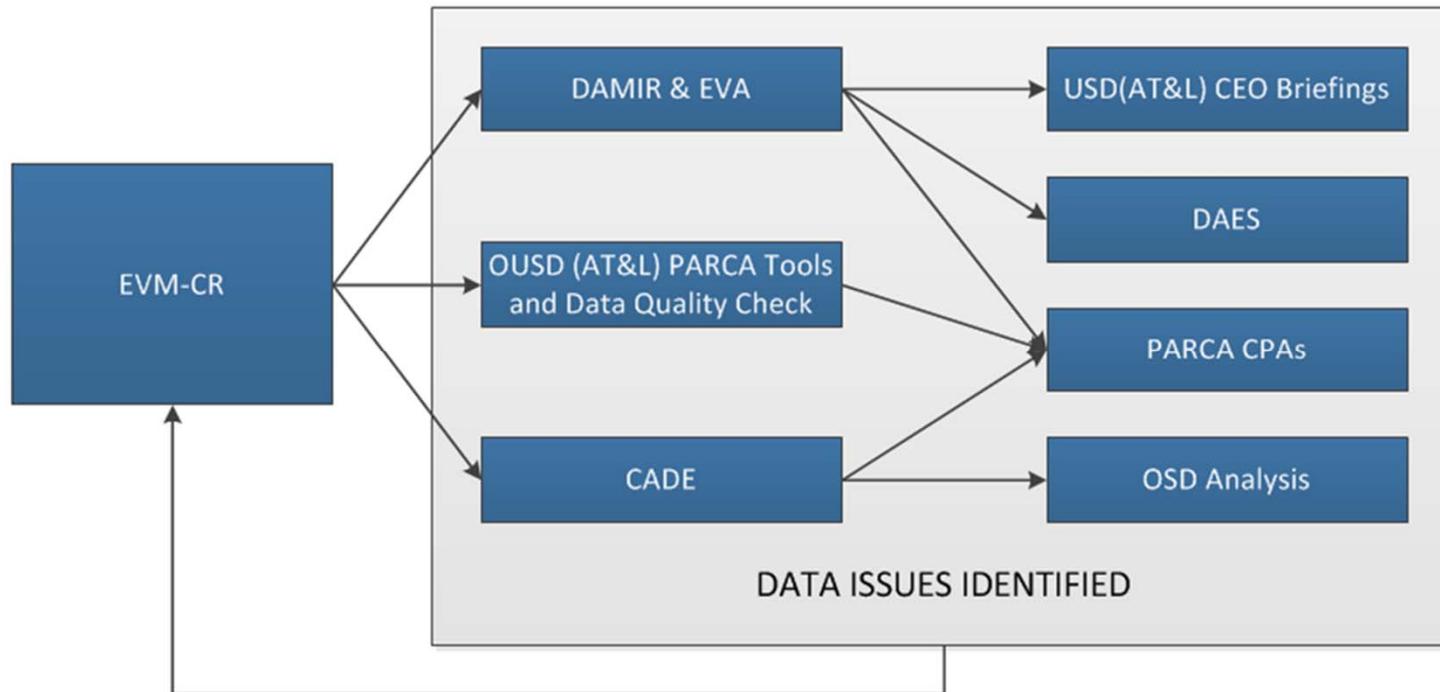


The USD(AT&L) and EV

- ▶ Mr. Kendall is an engineer, an MBA and a lawyer, with experience in industry and in government
- ▶ He's been using EV for decades. He knows it. He likes it.
- ▶ A sign on his door says, "In God we trust; all others must bring data"
- ▶ EV supports Mr. Kendall's program oversight responsibility



EV data after the EVM-CR

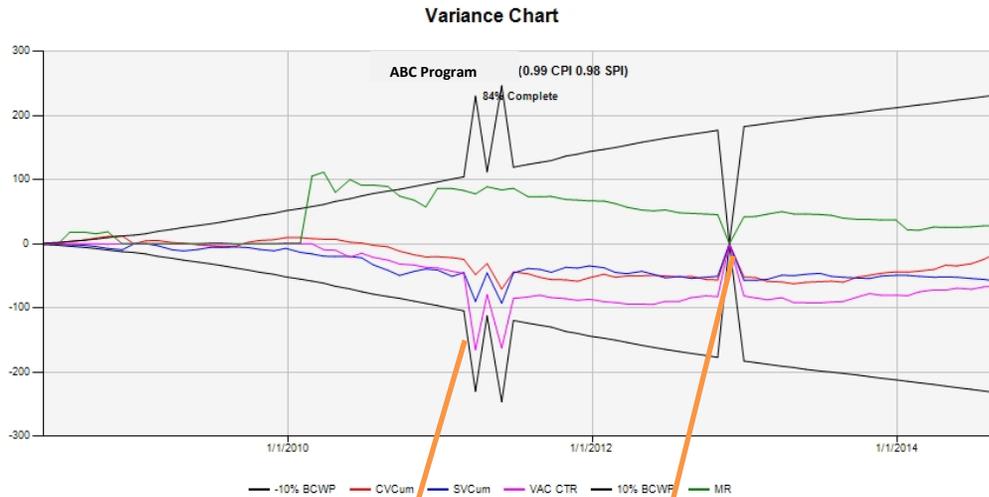


- ▶ EV data is being used in various OSD systems & tools
- ▶ In turn, OSD staff specialists use EV data to identify programmatic issues and inform senior level decisions and meetings
- ▶ Potential data quality issues are communicated to the EVM-CR to address with the contractor and program management office

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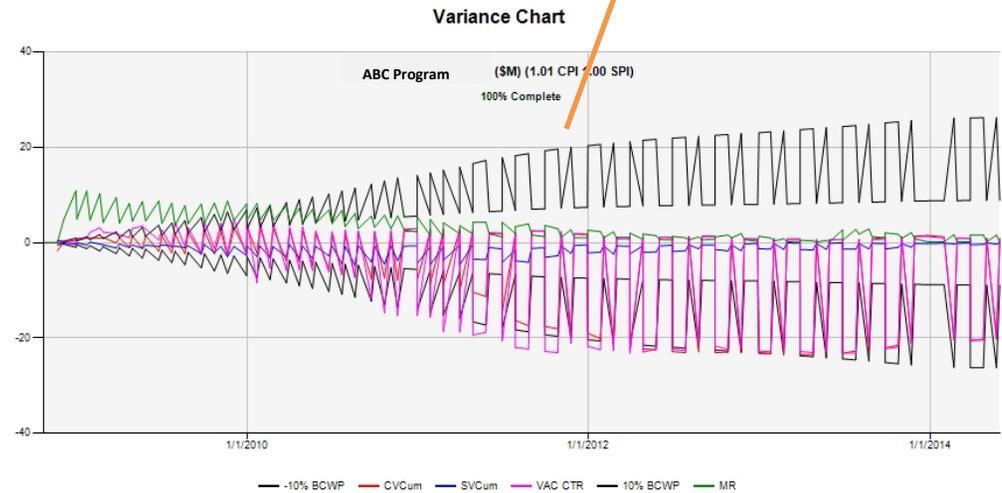
Data Quality



Bad Data

Bad Data

Contract Task Tags



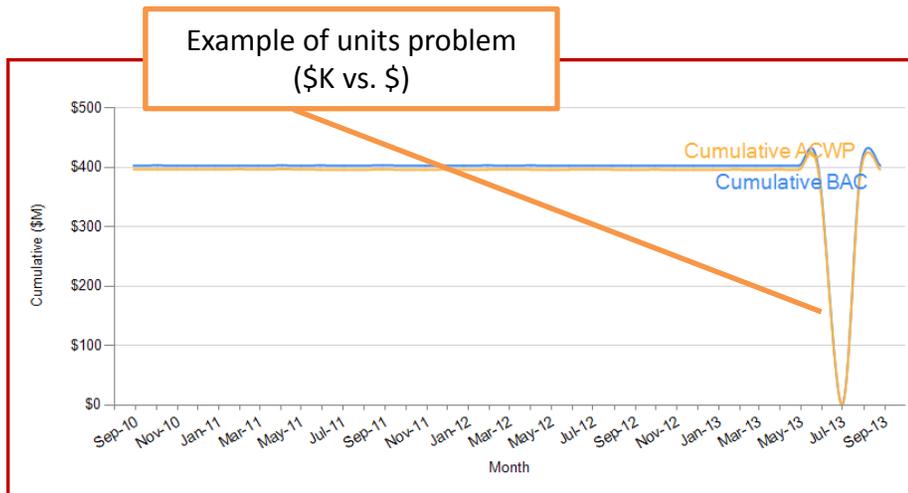
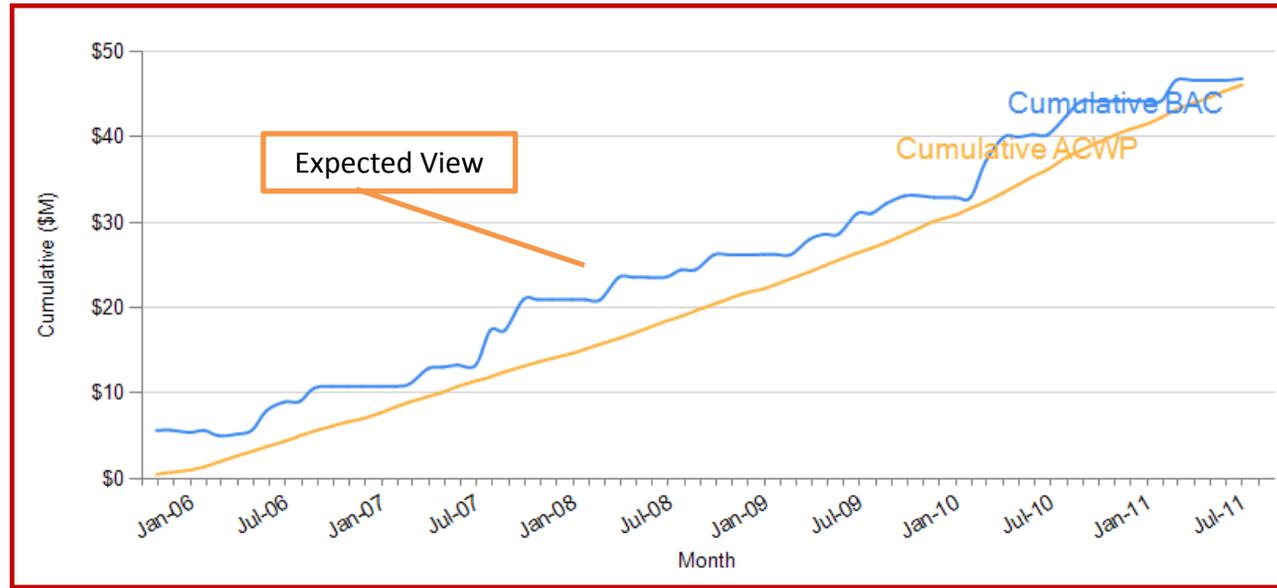
EVM-CR Hotline: (253) 564-1979 Ext 1

DAMIR Hotline: (703) 679-5345

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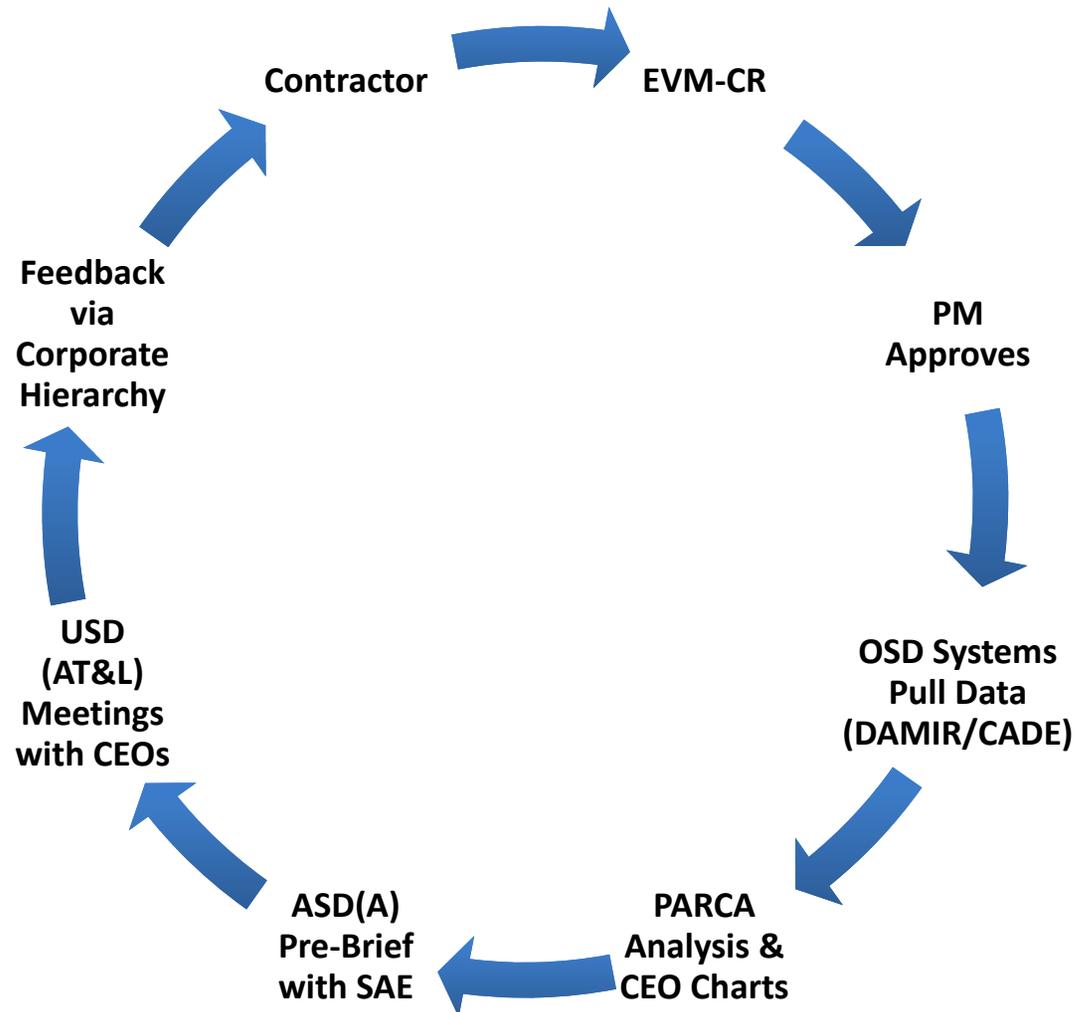
CADE Views Data Checks



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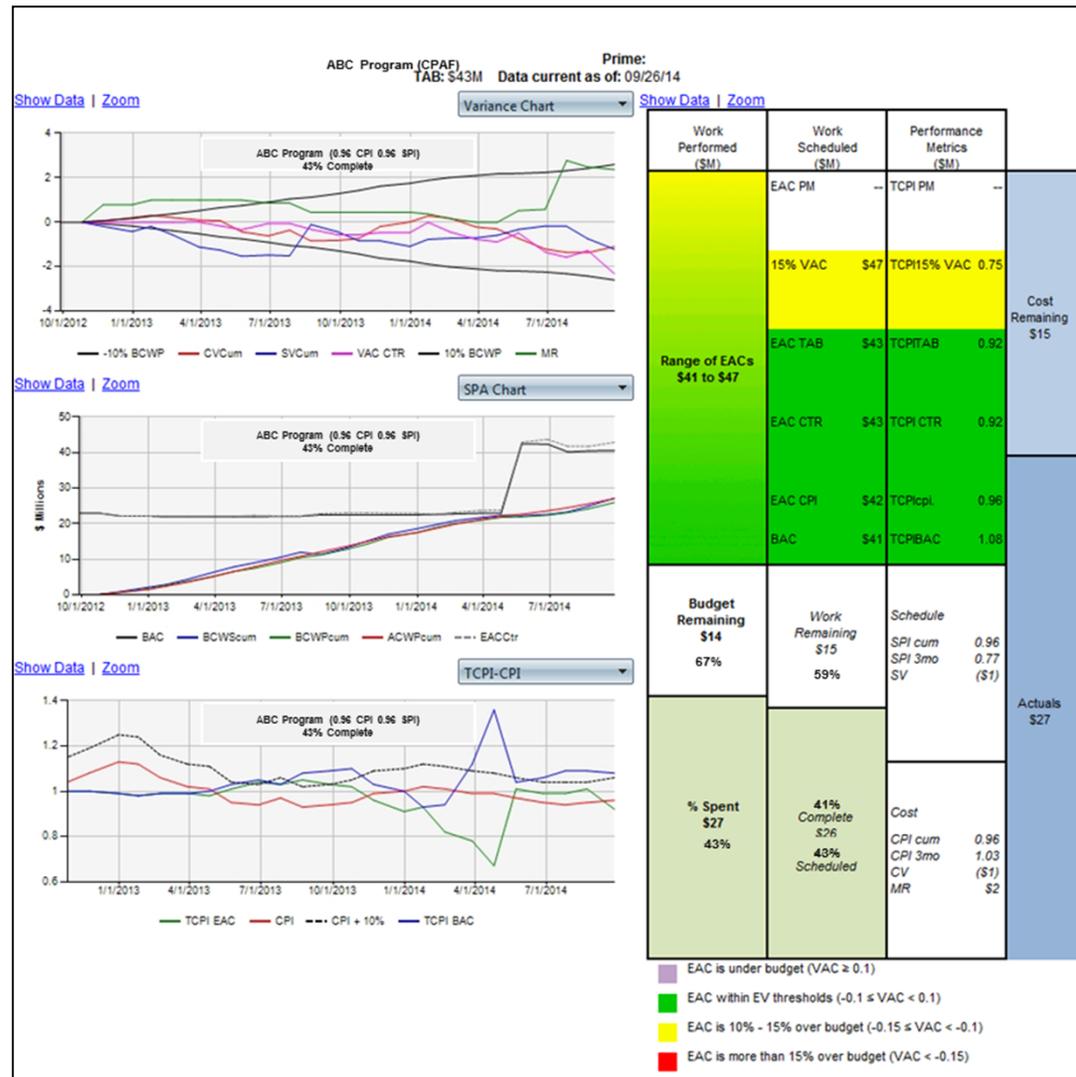
EV Data & CEO Briefings



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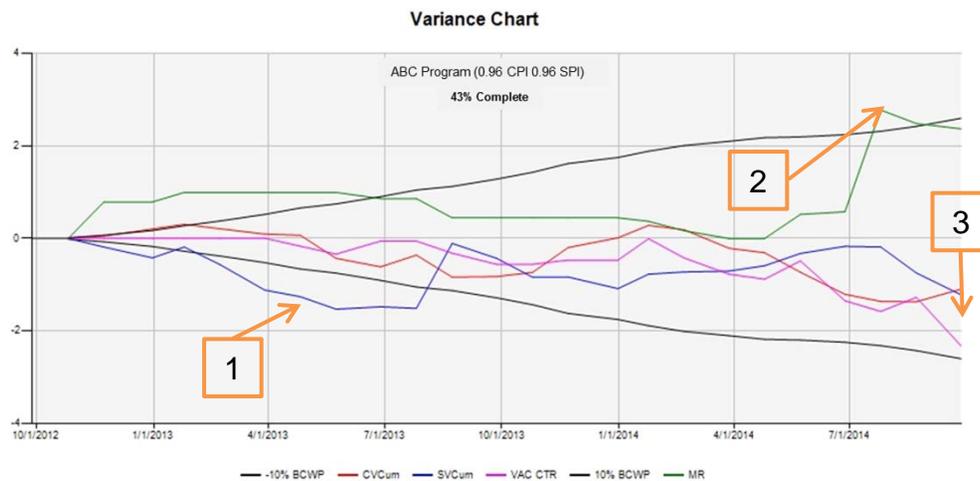
EV Data & CEO Briefings: EVA View



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EV Data & CEO Briefings: Data Blips



- ▶ 4/2013-7/2013: The negative cumulative schedule variance is primarily due to lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
- ▶ 8/2013: The \$2M MR increase is due to lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
- ▶ 9/2013: The current period schedule variance and VAC decrease is primarily due to lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



Defense Acquisition Executive Summary

- ▶ “The purpose of the DAES is to provide a venue to identify and address, as early as possible, potential and actual program issues which may impact the Department of Defense’s (DoD’s) on-time and on-schedule delivery of promised capabilities to the warfighter. The DAES is not just a report; it is a process...”
- ▶ DAES runs on a monthly cycle with several steps
 - Assessments
 - Program managers and OSD staff evaluate 1/3 of MDAP and MAIS portfolio each month
 - Data is submitted to DAMIR
 - Program Selection
 - Senior OSD officials decide which programs should make formal presentations to the DAES meeting
 - DAES meeting
 - Three or four PMs and PEOs brief USD(AT&L) and other senior leadership
- ▶ EV analysis is prominent in every step



DAES Assessments

- ▶ OSD and Program Managers assess programs in 11 categories
 - Cost, schedule, performance, contract performance, management, funding, test, sustainment, interoperability, production, international

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

- ▶ Assessments document programs' status and history, are stored on a shared website, and are read by all levels of staff and leadership
- ▶ EV data is used in
 - Contract Performance: EVM and IMS data are the core of contract performance assessments
 - Management: Lack of EVM data or EVM systems problems can produce negative management ratings
 - Cost: EVM data aggregated across contracts shows program cost status
 - Schedule: EVM data, integrated with IMS data and program milestones is often part of schedule assessments



PARCA Contract Performance Assessments

- ▶ PARCA examines available EV data for every contract on every program being reviewed each month
 - 342 Assessments on 91 programs in the past 12 months
- ▶ 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



Assessment Analysis Examples

- ▶ Contract Analysis
- ▶ Portfolio views
 - Grouping by contractor, commodity or Service
- ▶ Lower level analysis
 - CADE
 - Schedule analysis
- ▶ Combining EVM with other data to examine cost progress and funding



Thermometer Chart

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

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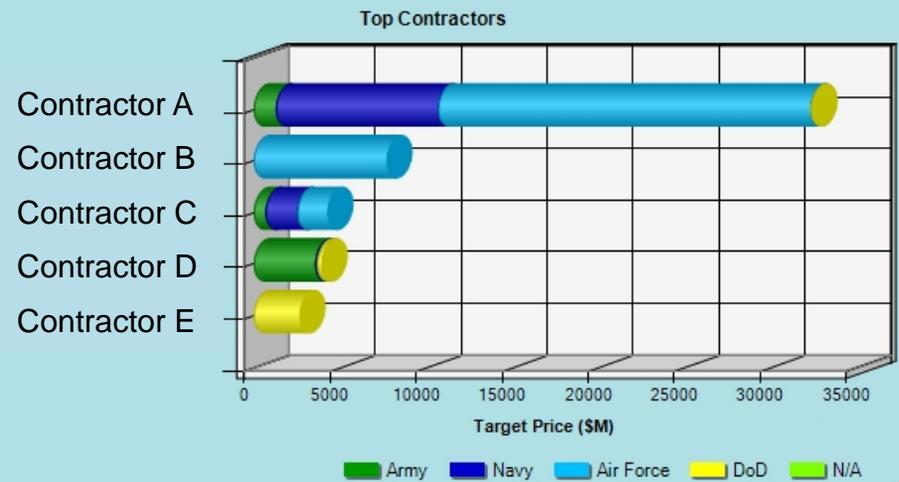
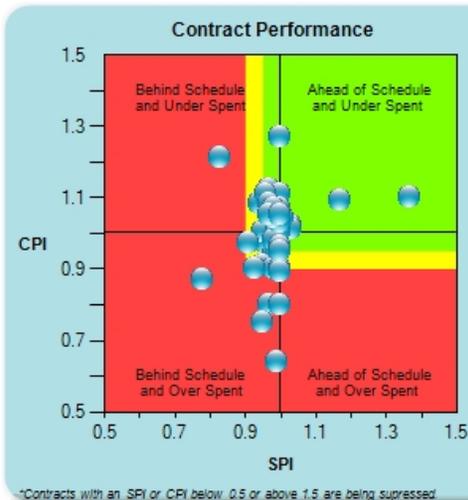
Contract Dashboard

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



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

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

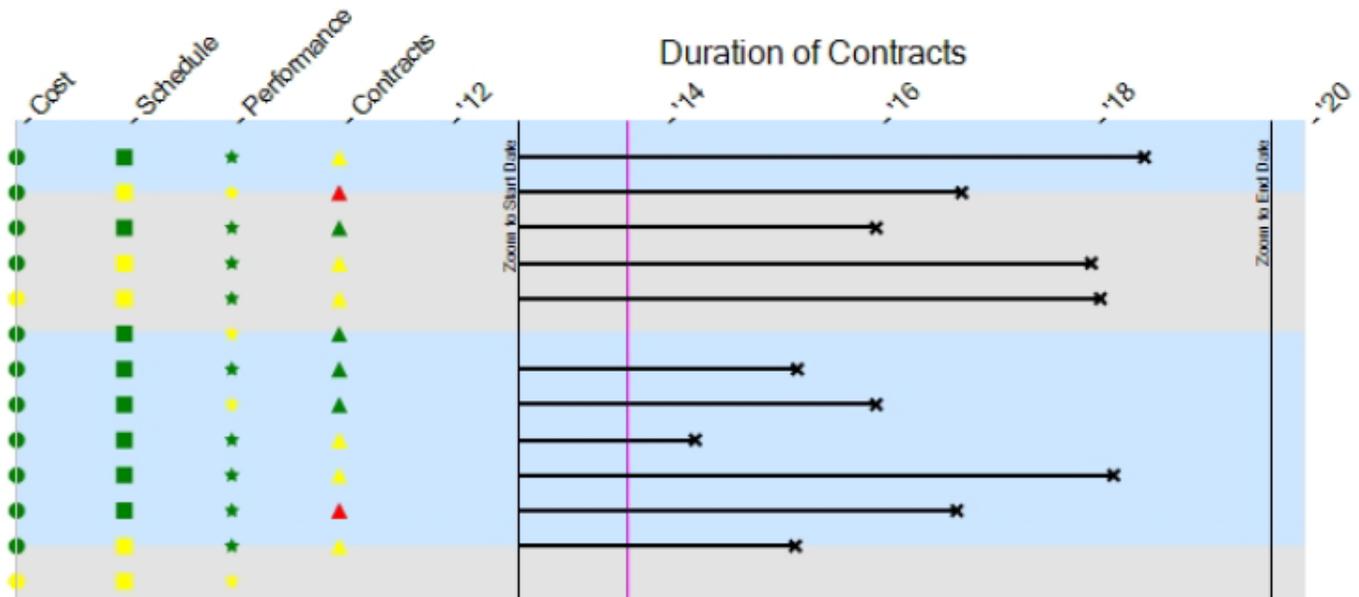




Significant Acquisition Watchlist (SAW)

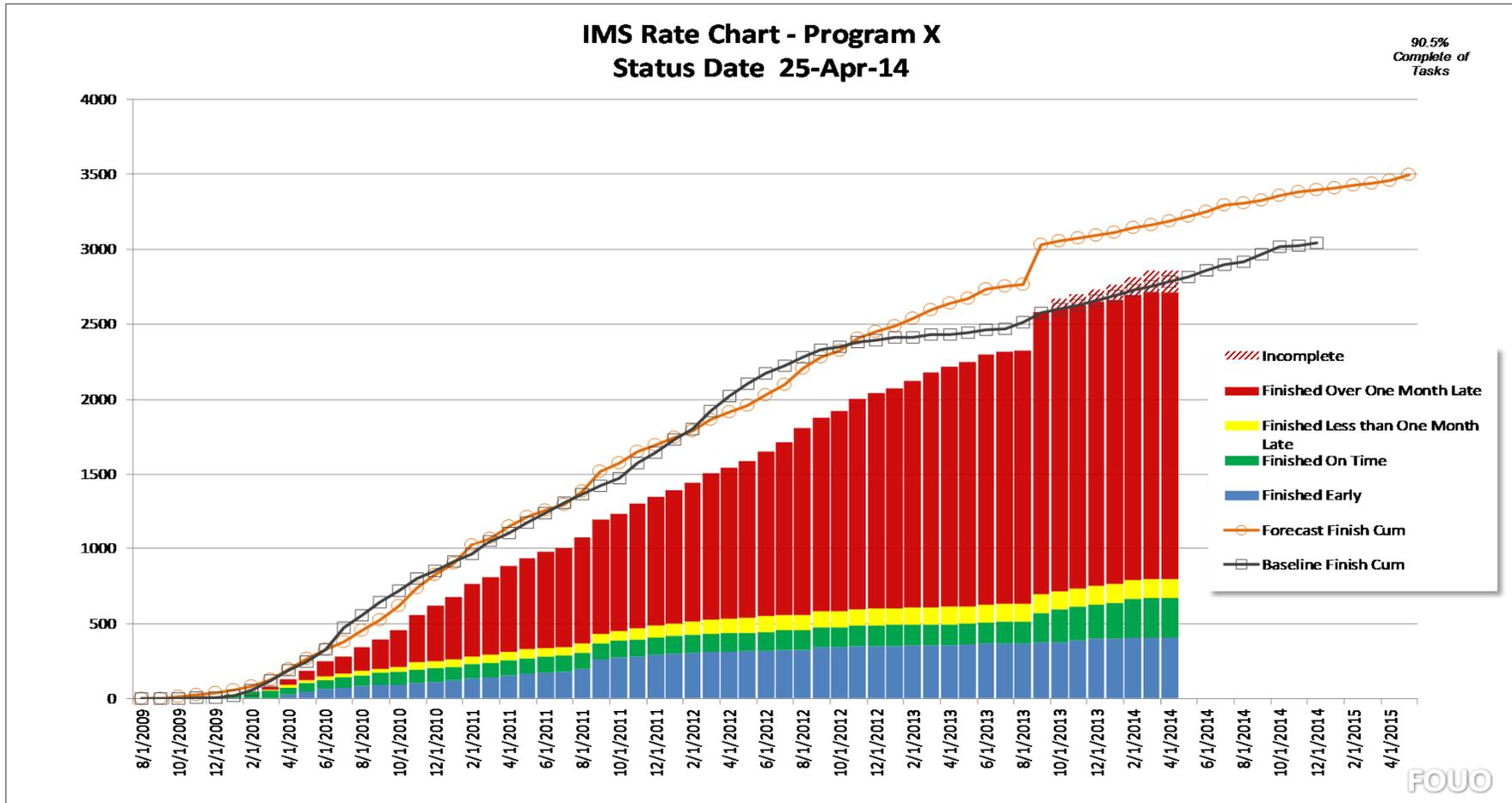
Options Selected

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





Schedule Analysis



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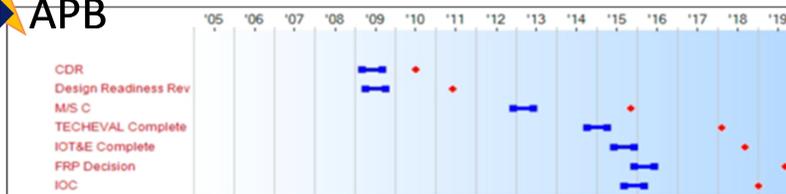


Schedule “inchstones” Show a Program Falling Behind

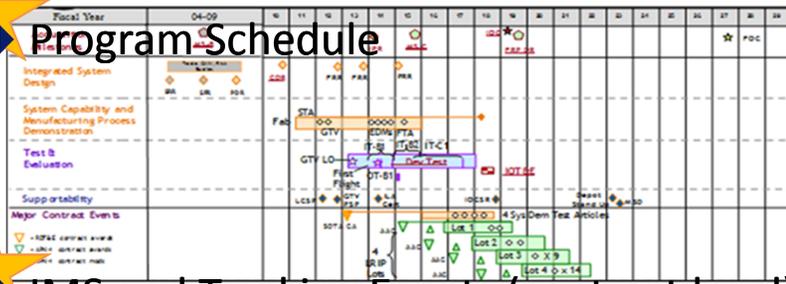
- ▶ THE GOAL: Evaluate progress to achieving long term schedule goals
- ▶ THE APPROACH: Track progress to near term events that drive those future schedule goals



▶ APB



▶ Program Schedule



▶ IMS and Tracking Events (contract level)

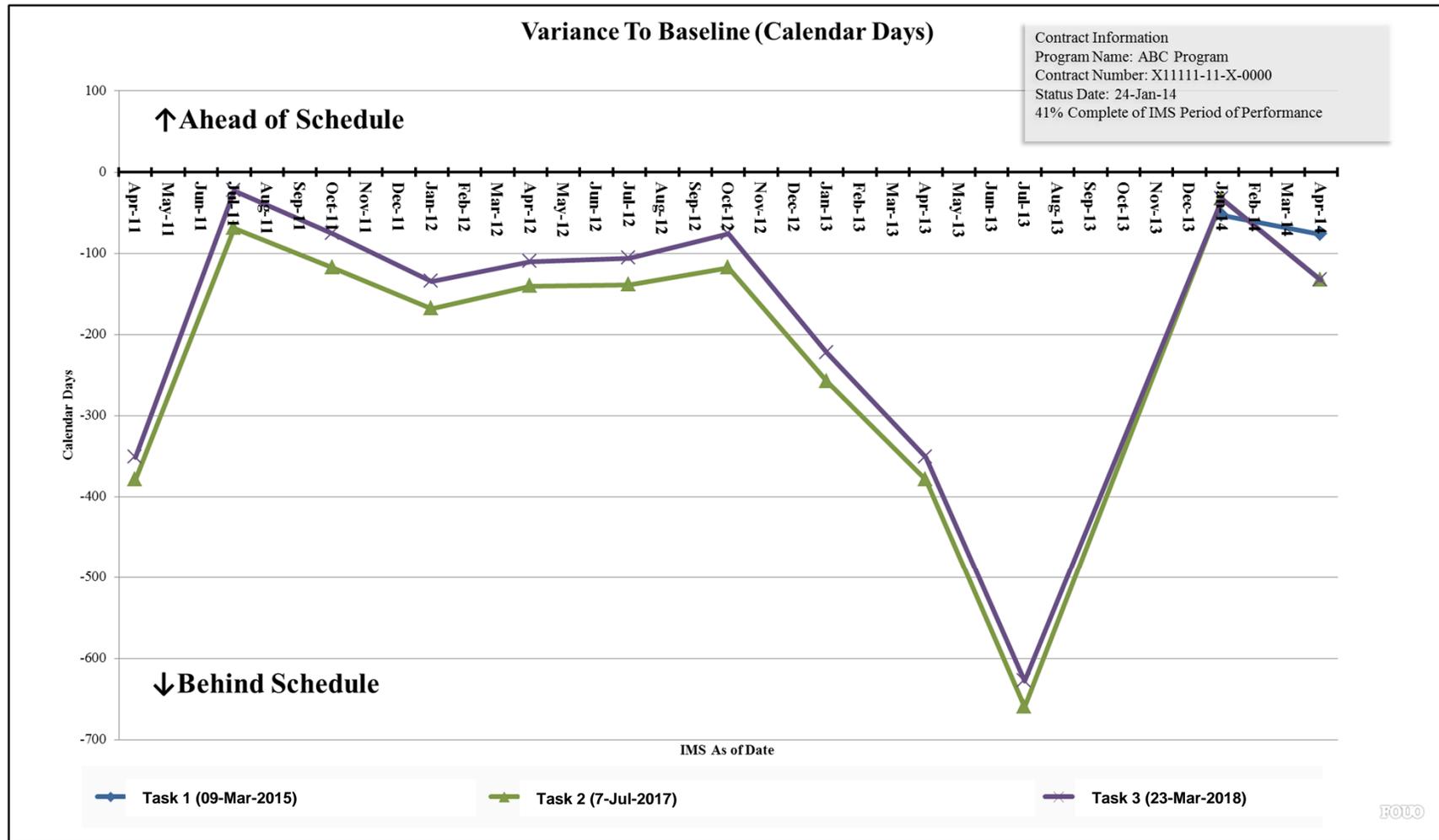


EXAMPLE:

- ▶ 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



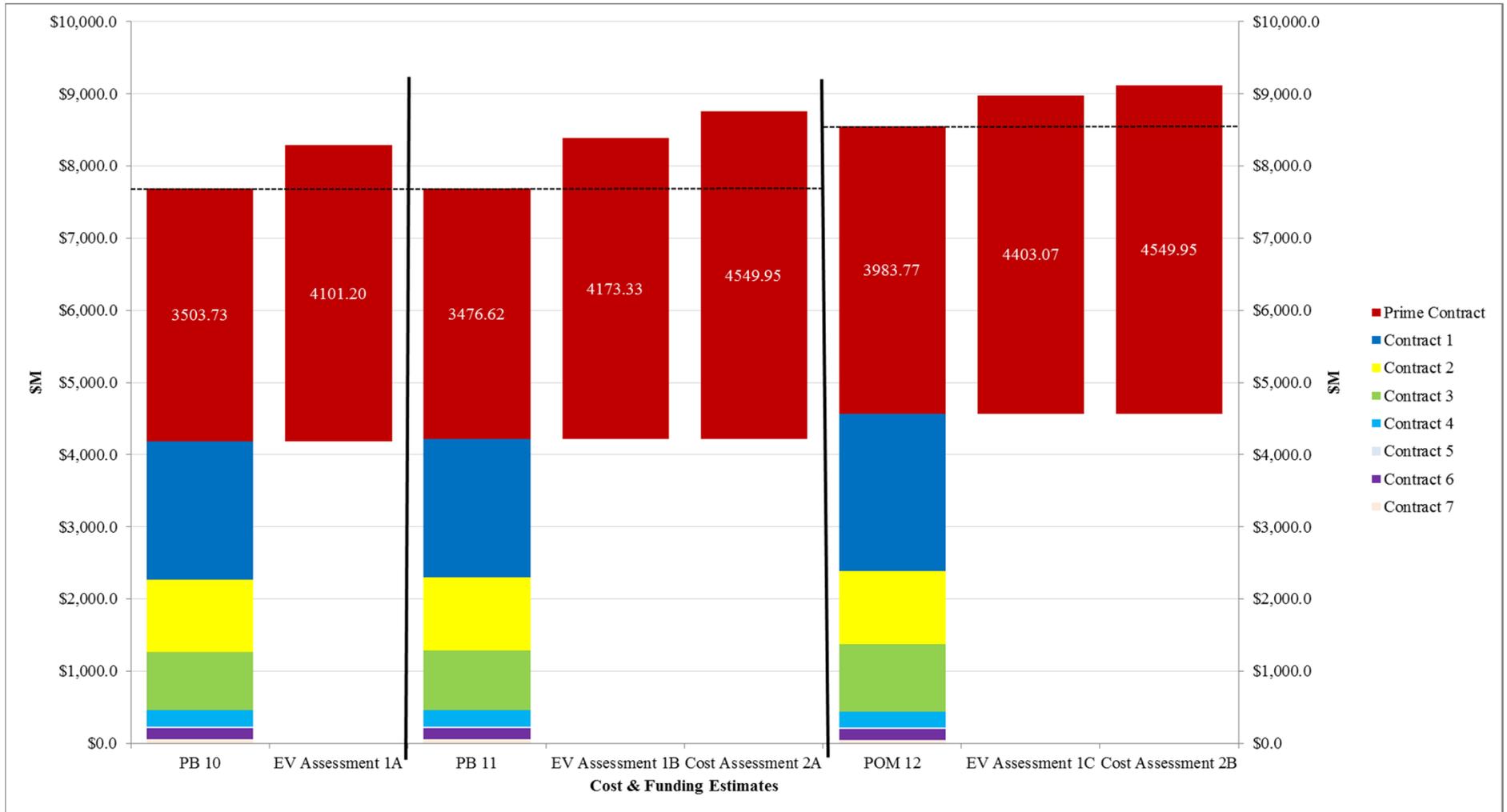
Tracking Status With Each New IMS Submission



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Program Not Funded to Actual Performance

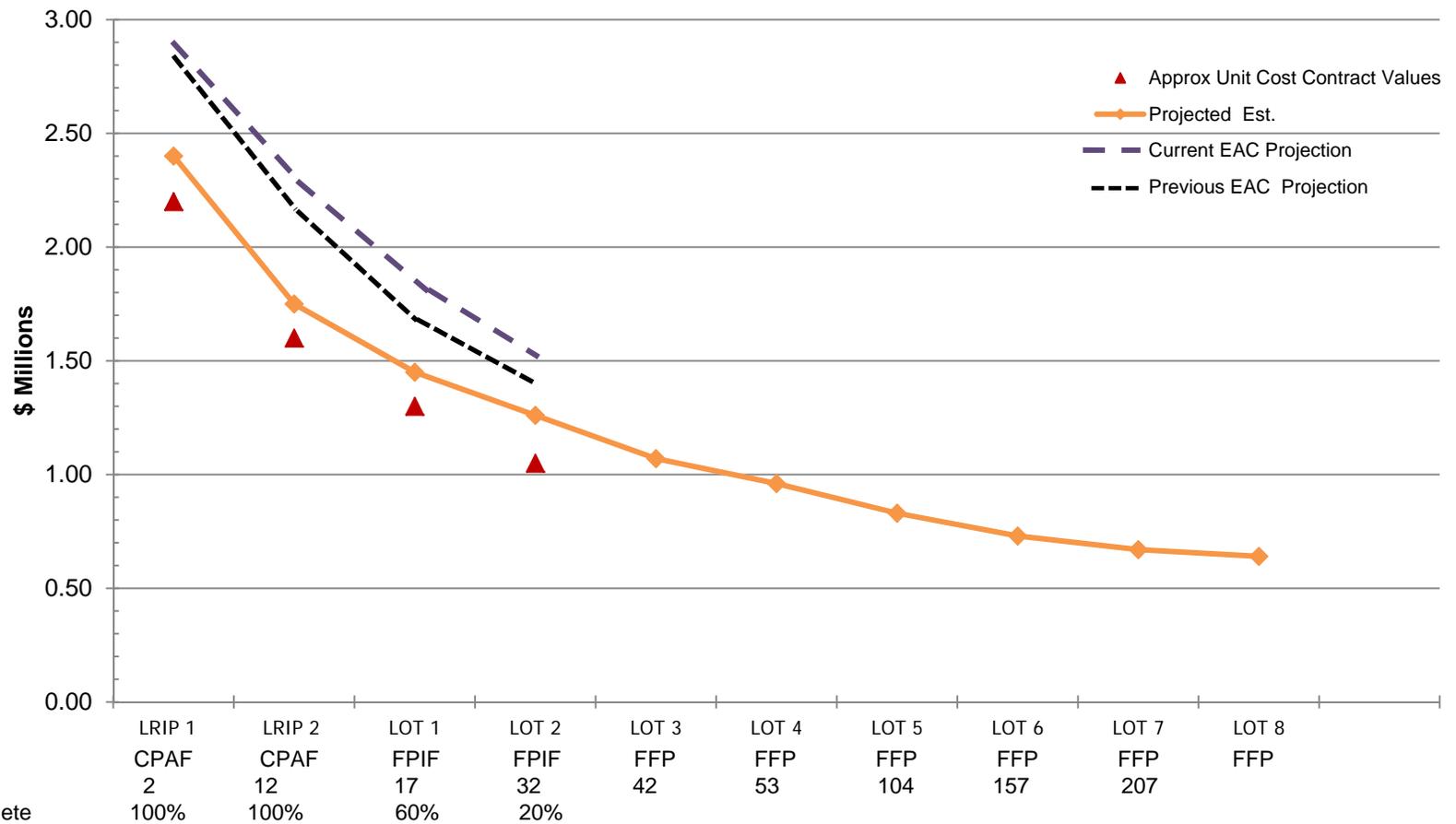


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Analysis Example - Using Earned Value Data to Show Implications of LRIP Costs

Notional Data
Estimated Average URF Price by Lot



EAC projection based on CUM Current Period CPR

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Summary

- ▶ Your EV data is reviewed at the highest levels in OSD
- ▶ EV 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



Key PARCA EVM Themes Recap

- ☑ All programs need program management, even if they don't use a full EVM implementation
 - Earned Value Management (EVM) is a program management tool that provides data indicators that can be used on all programs to enable proactive decision making throughout the program lifecycle and facilitate communication across the program team
- ☑ EVM supports all disciplines in their efforts to track progress; does not replace other program management tools such as TPM's, risk, etc.
 - Each team member, including program management, systems engineering, logistics, and manufacturing plays a role in the execution of the program plan and directly contributes to the achievement of program milestones and goals, but each discipline speaks its own language; the WBS facilitates communication across the program
 - Upfront planning is important to establish technical program expectations and flow down technical success criteria to the program baseline; EVM metrics should naturally flow from the technical plan



Key PARCA EVM Themes Recap

- ☑ Policy sets the direction and expectations for the implementation of Earned Value Management
 - Policy and guidance standardizes EVM requirements, oversight, and governance across the Department
- ☑ The IPMR provides integrated cost and schedule data to provide visibility into drivers of performance for decision making and situational awareness
 - Each program has unique attributes that should be considered when determining program management and reporting requirements, including, but not limited to, contract size and type, scope of work, complexity, risk, technology maturity, and resource requirements
 - In program management, one size does not fit all; integrated program management techniques, including performance measurement and scheduling can be tailored to what makes sense for each program
- ☑ The Government is serious about EVM and EV data is being used
 - The EVM-CR is the authoritative source of EVM reporting for the Department for ACAT 1 programs
 - DAMIR pulls EVM-CR data directly as the authoritative source of EVM data for DAES Reporting

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