

Defense Cost and Resource Center



Contractor Cost & Software Resources Reporting

*Ron Lile
Gary Bliss
November 2003*

A collage of various military and defense-related images, including a satellite, a stealth bomber, a rocket launch, a helicopter, a tank, a jet fighter, and a submarine. The images are arranged in a grid-like pattern with a blue background.

**The On-line
DoD Cost
Research
Library**

Enhancing DoD Cost Analysis

The Defense Cost and Resource Center
1111 Jefferson Davis Hwy; Suite 500
Arlington, Virginia 22202
Phone: 703.602.3301 Fax: 703.602.8944
<http://dcarc.pae.osd.mil>

It Helps to Remember Why....

Non-Standardized Reporting

- ✦ 1942 - Aeronautical Manufacturers' Planning Reports (AMPR)
- ✦ 1958 - Missile Manufacturers' Planning Reports (MMPR)
- ✦ 1959 - Missile Manufacturers' Support Equipment Planning Reports ((MMSEPR)

Early Standardized Reporting

- ✦ 1962 - Defense Contractors' Planning Reports (DCPR)
- ✦ 1965 - Cost Information Reports (CIR)
- ✦ 1970 - Procurement Information Reports (PIR)

Current Reporting Requirements

- ✦ 1970 - Cost Performance Reports
- ✦ 1973 - Contractor Cost Data Reports (CCDR)
- ✦ 1996 - CCDR Reengineering Effort Began

1940 1950 1960 1970 1980 1990 2000



CCDRs and the Acquisition Process



CCDR Requirements

- ◆ Mandatory on all ACAT I contracts \$50M (FY02) or greater including subcontracts
- ◆ May be placed on high-risk or high interest contracts between \$7.0M - \$50M (FY02)
- ◆ Cost Data Summary Report (1921) is required for all ACAT I
 - Component determines use for ACAT II/ III
- ◆ Functional Cost Hour Report (1921-1) and Progress Curve Report (1921-2) – Required only for specific WBS items that are high quantity, high risk, or high technological impact from Phase A (Concept and Technology Development) through LRIP in Phase C
- ◆ Waived for Firm Fixed Price contracts if awarded competitively and competitive conditions continue to exist



The Work Breakdown Structure

“The Core” of Contract Cost Data Reports

- ◆ The WBS is a product-oriented family tree composed of hardware, software, services, data and facilities Level of Cost Reporting.
- ◆ Standardized information is essential to perform meaningful cost estimating
- ◆ Program WBS encompasses entire program and consists of at least three levels of the program
 - Used by Government to define the Contract WBS (CWBS)
 - Used by Contractors to develop and extend a CWBS
- ◆ CWBS is the approved WBS for reporting purposes and its discretionary extension by the contractor
 - Includes all product elements which are the contractor’s responsibility
 - Contract Work Statement should provide the reporting requirements
- ◆ Subcontractor flow down of WBS



SRDR Requirements

- ◆ Programs Affected
 - SRDR's are required for all contracts within Acquisition Category (ACAT) IA, IC and ID with software content that is expected to exceed \$25 million (FY02\$)
- ◆ The Reported Data
 - Size, effort, schedule, and other descriptive development data
 - Submitted to Defense Cost and Resource Center (DCARC) for use by the DoD Cost Analysis Community
- ◆ Report frequency
 - 180 days prior to contract award by government PM (**estimates**)
 - 60 days after contract award or Memorandum of Understanding (MOU) by developing organization (**estimates**)
 - 60 days after start of subsequent software releases (**estimates**)
Within 60 days after any software release or final delivery by developing organization (**actual data about as-delivered product**)



Salient Features of Software Data

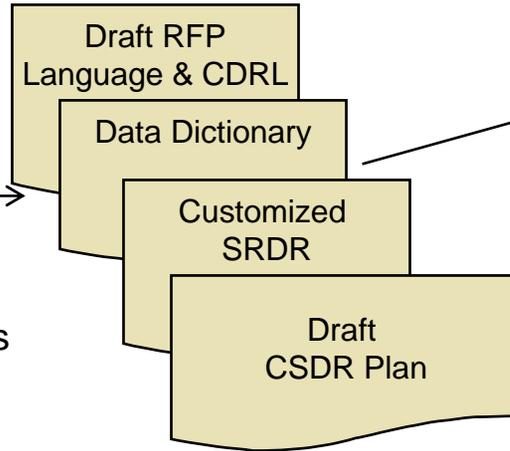
- ◆ Requesting data that developers normally use to manage software efforts
- ◆ Government suggests data elements
 - Must reflect size, effort, and schedule
 - Quality (defect) reporting only if directed by PM
- ◆ Developers have opportunity to comment on RFP
- ◆ Developers must propose how to meet intent
- ◆ Government-developer team customizes data items
 - Both the units and the definitions must be determined
- ◆ Delivery mechanism is flexible
 - Spreadsheet files preferred
 - Burden is on users to interpret and analyze

Objective: Maximum value at minimum cost

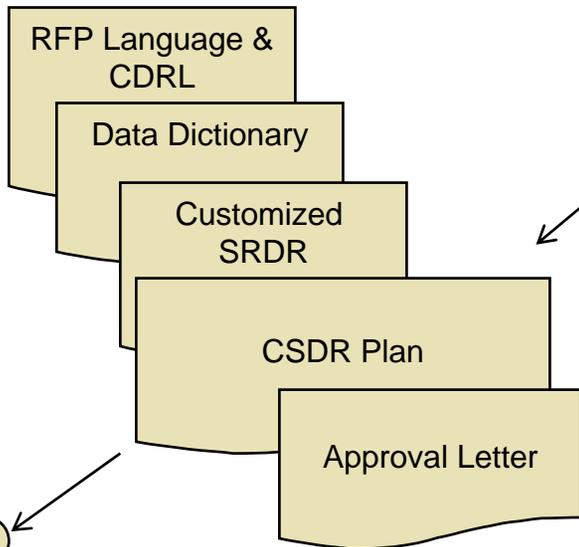
Cost and Software Data Planning Process



Cost Working Integrated Product Team (CWIPT) identifies data needs, develops CSDR plan, customized SRDR, data dictionary, RFP language, and CDRL



Developer analyzes and comments on data requirements

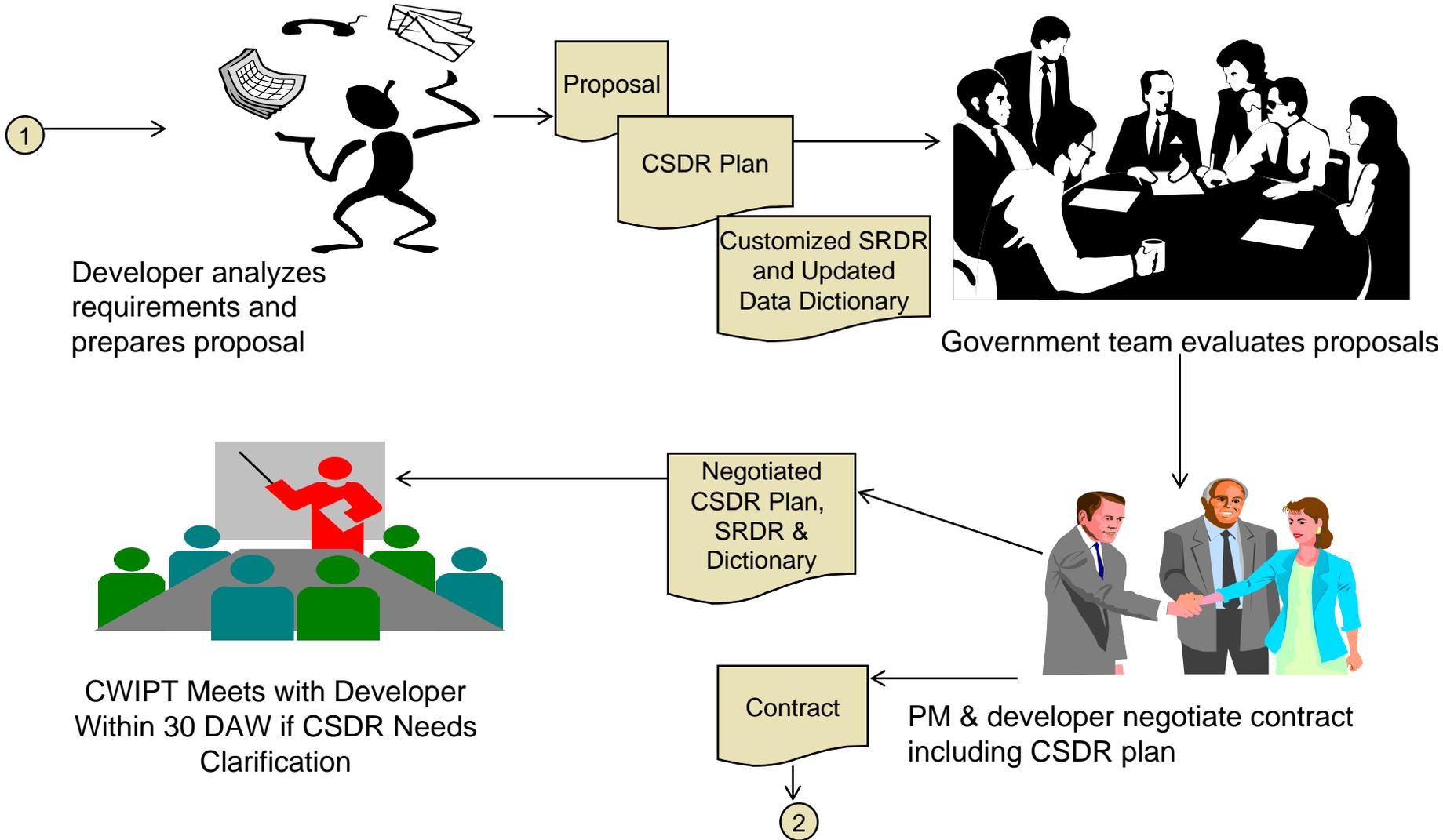


CAIG Chair approves SRDR Plan



(CWIPT) evaluates comments, revises CSDR Plan, data dictionary, RFP language, and CDRL. Submits CSDR plan for CAIG approval.

Cost and Software Data Collection Planning Process (Concluded)



Current ACAT 1 CCDR Status

Active Programs w/CAIG Approved CSDR Plans & Incoming Data	Pre-Milestone B Programs	Active Programs w/Program Office Engaged in CSDR Plan Development	Active Programs w/CAIG Approved CSDR Plans & Data Issues	Active Programs w/o CAIG Approved CSDR Plans & Data Issues	Programs w/CAIG Approved Waivers	Pre-MDAP Programs	Post MDAP Programs
AESA ATIRCM/CMWS B-1 CMUP C-130 AMP C-5 RERP CH-47F E-2C ADV Hawkeye E-2C REPROD F/A-18 E/F F/A-22 FMTV HIMARS JAVELIN JSOW JSTARS JTRS WAVEFORMS JTRS CLUSTER 1 LONGBOW HELLFIRE MH-60S RAH-66 STRYKER T-45 TS TAC TOMAHAWK THAAD UH-60M USMC H-1	ABB ABL AEGIS BMD ASDS COBRA JUDY* CVN-21 DDG 51 HPCM JTRS CLUSTER 5 MEADS** MP RTIP* MUOS* SSN 774 STSS T-AKE	AAHV (LRIP) AARGM (SDD) GMRLS (LRIP)	AEHF AWACS RSIP CEC DD(X) F-35 FBCB2 FCS GBS GLOBAL HAWK GMD MCS (ATCCS) MH-60R MM III GRP NAVSTAR GPS NPOESS PATRIOT PAC-3 SBIRS HIGH V-22	ABRAMS UPGRADE AIM-9X AMRAAM BRADLEY UPGRADE C-17A CVN-78 EXCALIBUR LAND WARRIOR LHD 1 LONGBOW APACHE LPD-17 MM III PRP NESP SM 2 SSGN TRIDENT II	CHEM DEMIL C-130J EELV JASSM JDAM JPATS MIDS-LVT NAS WGS	ACS*** ADS AOC-WS B-2 RPP BAMS CH-53X CM*** DCGS ARMY E/A-18G** E-10A GCCS-AF GCSS-A JLENS JOINT UCAS JPALS JTRS CLUSTER 3 JTRS CLUSTER 4 KC-767 KI LCS LHA(R) MKV MMA** MPF(F) MPS NATO SATCOM PREDATOR B PRV SBR** SBSS SDB** SM-6 (ERAM)** T-AOE(X) TSAT* VXX WIN-T*	AV-8B B-2A CGS DMSP MILSTAR SMART T SQQ-89 TITAN IV
26	15	3	18	16	9	36	8
TOTAL PROGRAMS	131						
AT&L	90						
INTEL	17						
MDA	10						
SPACE	14						

*-CAIG Approved Program CSDR Plan

**-Program Office engaged in Program CSDR Plan Development

***-CARD missing CSDR Plans. Program Office non-responsive

Programs Never Designated ACAT iD

Note: Data based on USD(AT&L) Memo dated July 1, 2003 re Addendum to FY2003 MDAP Lists