Performance Measurement

in

Current & Draft DoD Policy

Joe Jarzombek, PMP
Deputy Director for Software Intensive Systems
Acquisition Resources & Analysis Directorate
Office of the Under Secretary of Defense (AT&L)

Current Policy DoD 5000.1

- "The DoD shall use performance and results based management to ensure an efficient and effective acquisition system."

- "Successful acquisition programs are dependent upon:
  – Competent people
  – Rational priorities
  – Validated requirements
  – Performance measurement
  – Clearly defined responsibilities"

  (from E3.1.1 Acquisition)

Current Policy DoD 5000.2-R

- Select contractors with domain experience in developing comparable software systems; with successful past performance; and with a mature software development capability and process.

  (from para C5.2.3.5.6.1.5)

Note: "mature software development capability and process" implies existing use of a measurement process with a measurement plan

Current Policy DoD 5000.2-R

- "Utilize a software measurement process to plan and track the software program and to assess and improve the software process and associated software product. These measures shall be reported to the appropriate OSD oversight office."

(from C5.2.3.5.6.1.6.)

Current Policy DoD 5000.2

- "There are already clearly established measures and accountability for program progress."
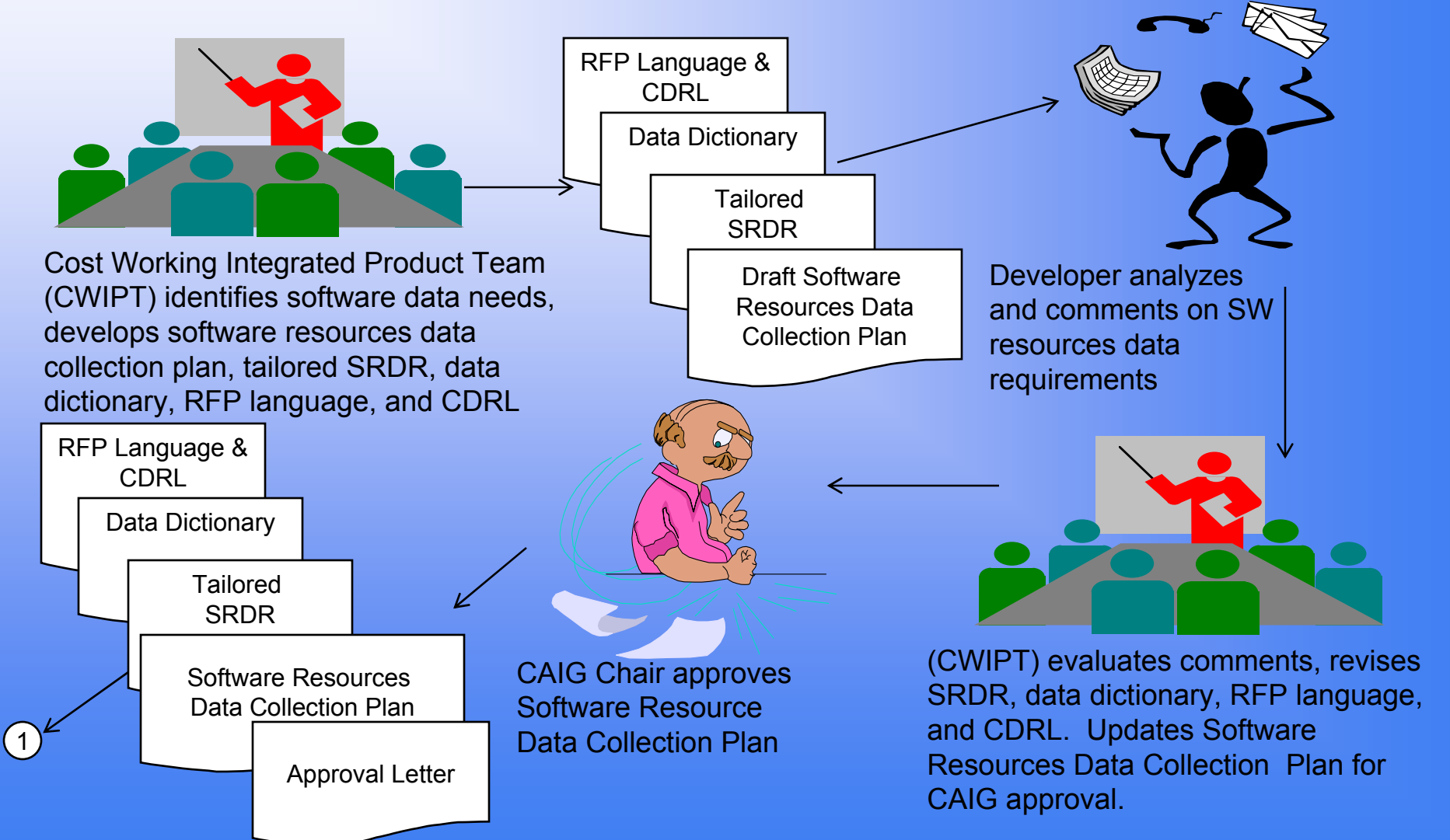
  (from 4.7.3.2.3.2.1.6.)

  "Mission-related, outcome based performance measures have been established and linked to strategic goals."
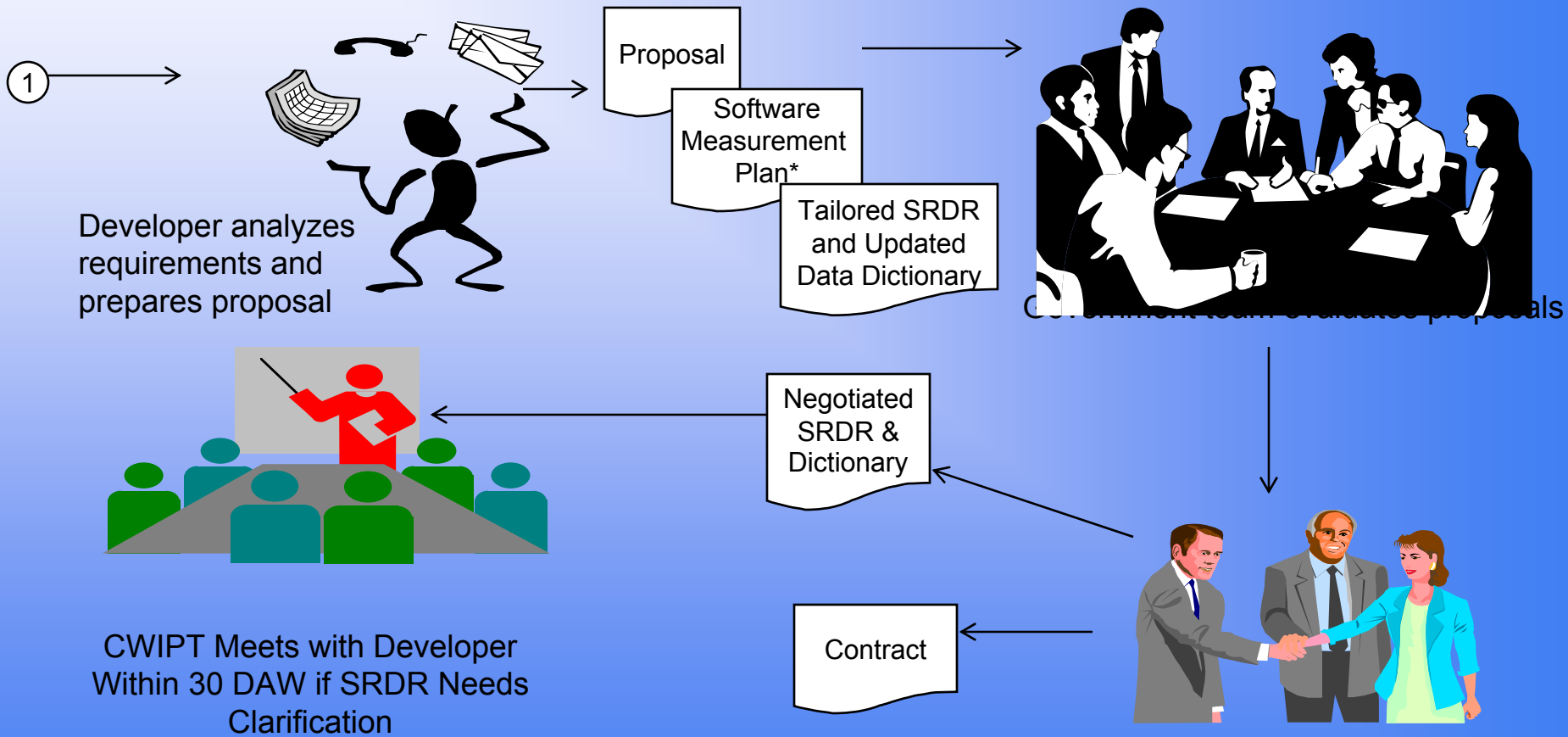
  (from 4.7.3.2.3.2.1.7.)

OSD CAIG Software Measures
(DoD 5000.4-M-2)

- Episodic software driver reports on ACAT I programs
  - Size, effort, schedule, quality and other descriptive development data
  - Submitted to Government PM and OSD's Cost Analysis Improvement Group (CAIG)

- Report scope
  - All contracts within Acquisition Category (ACAT I) IA, IC and ID with software content that is expected to exceed $25 million (FY 2002$)

- Report frequency
  - 180 days prior to contract award by government PM
  - 60 days after contract award or Memorandum of Understanding (MOU) by developing organization
  - 60 days after start of subsequent software releases
  - Within 120 days after any software release or final delivery by developing organization

Software Resources Data Collection Planning Process

RFP Language & CDRL

Data Dictionary

Tailored SRDR

Draft Software Resources Data Collection Plan

Cost Working Integrated Product Team (CWIPT) identifies software data needs, develops software resources data collection plan, tailored SRDR, data dictionary, RFP language, and CDRL

Developer analyzes and comments on SW resources data requirements

RFP Language & CDRL

Data Dictionary

Tailored SRDR

Software Resources Data Collection Plan

Approval Letter

CAIG Chair approves Software Resource Data Collection Plan

(CWIPT) evaluates comments, revises SRDR, data dictionary, RFP language, and CDRL. Updates Software Resources Data Collection Plan for CAIG approval.

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Software Resources Data Collection Planning Process (Cont.)

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Developer analyzes requirements and prepares proposal

Proposal

Software Measurement Plan*

Tailored SRDR and Updated Data Dictionary

Government team evaluates proposals

Negotiated SRDR & Dictionary

CWIPT Meets with Developer Within 30 DAW if SRDR Needs Clarification

Contract

PM & developer negotiate contract including software measurement plan

*The Software Resources Data Collection Plan, and its associated SRDR is a subset of Software Measurement Plan

Draft Policy
(currently under review)

<u>5000.1</u> - No direct reference to measurement or metrics.

<u>5000.2</u> – Maintains the clearly established measures and accountability

(renumbered to 2.1.6 and 2.1.7).

-Adds that each acquisition should have a metric for cost, schedule, and performance.

(from 4.2)

<u>5000.2-R</u> - Transition to Guidebook

-Not mandatory

Pending FY2003 Legislation

- **SR. 2514 Section 804**

"-Establishes programs for each military department to improve the software acquisition process.

-Programs must include:

    1- A documented process for software acquisition planning, requirements development and management

    <u>2- Efforts to develop systems for performance measurement and continual process improvement</u>

    3- A system for ensuring that each program office with substantial software responsibilities implements and adheres to established processes and requirements."