

Lessons Learned on Cooperative Government/Industry Appraisals

aka Registered Appraisals

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Cooperative Appraisals

A definition:

- Government members or representatives participate on a corporate assessment
- Establishes additional confidence in impartiality and objectivity of assessment results
- Results signed by government members to assert that objective appraisal process was used in conformance with the instrument's method description
- Results (including findings) "registered" into SEI repository where they will be available for review by potential customer (government) organizations
 - In lieu of customer conducting their own evaluation of the appraised organization



Policies Driving Interest in Cooperative Appraisals

- OSD Policy, Jan 2001, requiring Level 3 Evaluation in order to compete for DoD Acquisitions
 - Not corporate assessment, but government (or representative) evaluation
 - ACAT1 programs, but some services applying policy to other programs
- Resources and schedule implications on government evaluations during source selections
- Interpretation of policy can accommodate more collaboration in corporate assessments for process improvement
 - Collaborative or "registered" appraisals:
 - Appraisers representing government offices participate on corporate assessments
 - Results to be managed by SEI and made available to government offices in lieu of SCE-like evaluation for acquisition





OSD's CMM Level 3 Policy Study

- Is policy being implemented on applicable programs?
 - Largely, but questions exist
- What clarifications are needed?
 - Emphasis on independent evaluations vice corporate assessments
 - How to address additional program office costs of conducting evaluations and impacts to the source selection schedule
- Additional OSD guidance being drafted
 - Specify candidate appraisal methods for use by government
 - SCE, SCAMPI Class A appraisals, SDCE
 - SCAMPI Class B appraisal methods for evaluations to be developed
 - Encourage reuse of government/corporate appraisals across acquisitions
 - Cooperative Government /Industry Appraisals
 - Registration of Results in SEI Repository





Who can be a "Government" Member of Cooperative Appraisal Team?

- Government employee
 - Program office member
 - DCAA rep
 - DCMA rep
 - Other
- FFRDC
- CAAS/SETA Support to Program Offices or Agencies

As long as no consulting relationship to appraised organization for process improvement implementation

Key Criteria

- Proper training and experience
- Participation Sponsored By (Paid for By)
 Government Agency





Role of Government Representatives on Appraisal Team

- Understand corporate objectives for appraisal
- Bring experience / appraisal knowledge/ model knowledge as full-fledged member of appraisal team
- Fulfill responsibilities as full-fledged appraisal team member
 - Not merely an observer of the appraisal team
 - Ensure their vote/voice counts as much as every other appraisal team member
- After appraisal:
 - Sign registered appraisal forms
 - Attesting to completeness/validity of process used for appraisal
 - Respond to questions from prospective "consumers" of appraisal information during next 2 years
 - Government program offices seeking maturity level information in support of acquisition



1st Registered Appraisal -- Context

- First cooperative appraisal conducted Summer 02
 - Appraisal Method: SCAMPI V 1.1
 - Reference Model: CMMI SE/SW, Staged, Level 5
- Scope of appraisal, Lockheed Martin, M&DS
- Size of team: 6
 - 3 of the 6 were SEI-certified lead appraisers
 - 2 of the 6 were SCAMPI lead assessors
- "On Site" Window:
 - 3 days team training/readiness review
 - 10 days of on-site appraisal activities





Factors Affecting Effectiveness of Cooperative Appraisal

- Early identification and involvement of Government appraisal team members
- Planning
- Qualifications of team members
- Composition/Responsibilities of mini teams
- Interpersonal dynamics of appraisal team members
- Readiness of the appraised organization



Lessons Learned ¹

- Early Identification/Acceptance of Government Appraisal Team Members (6 months or longer before appraisal)
 - Ensure entire appraisal team is balanced/optimized
 - Will drive appraisal team approach
 - Match mini teams to complement experience/expertise of all appraisal team members
 - Organizational overviews and documentation needs
 - Allows for optimized PA assignments
 - Preserves appraisal schedule with early lock-in
 - Allows time to identify and resolve any training needs
 - Allows time to look for alternatives if nominee lacking critical training/experience





Lessons Learned²

Effective Planning

- Involve government-sponsored appraisal team members AS EARLY AS POSSIBLE in corporate planning activities
 - Helps build shared understanding of corporate objectives and expectations
 - Senior management's focus on process improvement and maturity level rating
 - Historical background of organization in their process journey (what has worked, what hasn't)
 - Address team building, training, appraisal focus issues early without disruption to corporate assessment plans



Lessons Learned ³

- Qualifications of Government Team Members
 - Must have strong experience with formal appraisals
 - Must be a lead appraiser or candidate lead appraiser
 - Must have strong foundation with reference model
 - Experience using same model in appraisals
 - Must have ample experience with relevant development & engineering activities
 - 10-15 years system development
 - Similar business/technical domain a plus

- Government Members represents credibility of appraisal to other Government Agencies
 - the credibility of their affirmation is limited by their credibility as an appraiser





Lessons Learned ⁴

- Composition/Responsibilities of Mini Teams
 - SCAMPI concept of mini-teams does not directly support concept that government members of cooperative assessments can attest to process and be comfortable with results
 - Mini-team activities can be much more diffused than in CBA-IPI or SCE
 - Allows for more "in-parallel" data gathering and consolidation
 - Make sure Appraisal Plan allows for sufficient "in serial" data gathering and processing to accommodate Registered Appraisal objectives
 - Make sure team data consolidation and consensus activities allow for sufficient time to share information across mini-team
 - Mini Teams responsible for justifying characterizations at project level to rest of the team during consensus...
 - Not just counting types/pieces of objective evidence
 - "Red-teaming" project characterizations across mini-teams in preparation for team consensus...





Lessons Learned 4 (continued)

- Composition/Responsibilities of Mini Teams
 - Put considerable thought into how to organize mini teams given participation of government representatives
 - Most controversial PA's will be those at higher maturity levels
 - Government members will have less familiarity with organizational aspects of processes
 - Don't put government members on same mini team
 - Don't put government members only on less controversial or less stringent PA's
 - Don't organize mini teams by maturity level
 - Doesn't balance work across mini teams
 - Consider organizing mini teams by process category or some other method to balance appraisal work by a conscious theme
 - Project Mgmt (6)

Engineering (6)

Process Mgmt (5)

Support (5)





Lessons Learned 5

- Interpersonal Dynamics of Appraisal Team Members
 - High probability government members have not been on an appraisal with rest of team members before
 - High probability government members not as familiar with organization's policies, standards, processes, terminology, etc as rest of team (which more than likely will have experience appraising this organization)
 - Team building and team communication is crucial to successful appraisal
 - Make time for these tasks during planning and training activities
 - Model interpretations need to be normalized across team
 - · Even with team of well-qualified, experienced evaluators
 - Objective evidence interpretations and definitions of sufficiency need to be consistent and reasonable
 - What's a Direct Artifact versus Indirect Artifact versus Direct Affirmation?
 - What kind of objective evidence is sufficient to demonstrate "fully implemented"?
 - One direct artifact (i.e. minutes from one meeting)? There are many types
 of direct artifacts... so what will be sufficient



Lessons Learned ⁶

- Readiness/Maturity of the Appraised Organization
 - Meeting the intent of the model as well as the "letter of the law"
 - Conservative Mapping of Organization/Project Processes and Artifacts to Model
 - Organization doesn't try to stretch processes to apply to higher level process areas
 - Availability of additional objective evidence and people to respond to appraisers' questions
 - May be more questions/info requests than in typical corporate
 assessment
 - Organization welcomes an objective appraisal



Output of Registered Appraisal*

Appraisal Findings

- Outbrief
- Characterization of Organization by PA
- Significant Strengths and Weaknesses

Statement of Appraisal Results

- Organization/Division
- Projects Appraised
- Appraisal Model
- Appraisal Method
- Signatures
 - Sponsor
 - Lead Appraiser
 - •Government Reps
 (& contact info)

Registered results valid for 2 years

SEI Repository for Registered
Appraisal Results



*For further information contact SEI Customer Relations at 412-268-5800 or customer relations@sei.cmu.edu



Remaining Policy Issues

- Degree to which registered appraisals used in source selections
 - Education/awareness/motivation
- FAR implications for competitions
 - If not all offerors in acquisition have cooperative appraisal results available/registered
- Near term staffing drain on government agencies to get initial cooperative appraisals registered
 - Rely on FFRDCs and CAAS/SETA



Summary

- Age-old question: Does sponsorship and appraisal team composition affect outcome/results of appraisal?
- Age-old constraints:
 - Staffing/resource constraints for implementing OSD policy
 - Impact of Government Class A appraisals on acquisition schedules
- Solution sets:
 - Other than SCAMPI Class A Appraisals
 - SCAMPI Class B Appraisal Evaluation Method (to be defined early 03)
 - System / Software Risk Evaluations
 - Process Benchmarking Evaluations
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 - Cooperative Government/Industry Appraisals with Registered Results

