Process Maturity Profile

CMMI®
SCAMPI®SM Class A Appraisal Results
2008 Mid-Year Update

September 2008

We could not produce this report without the support of the organizations and lead appraisers who reported their appraisal results to the SEISM.

Our many thanks for their continuing cooperation with our data collection and analysis efforts.

CMMI Appraisal Program
### Process Maturity Profile: CMMI SCAMPIISM Class A Appraisal Results 2008 Mid-Year Update

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Prepared by ANSI Std Z39-18
Outline

Introduction

Current Status

Community Trends

Organizational Trends

Summary And Terms used in this Briefing

How to Report your Appraisal Results to the SEI

This briefing is based solely on the appraisals reported to the SEI. It cannot be used as a source for an exact indicator of all organizations in the world using CMMI models or appraisal methods nor can it be used for certification or verification purposes.

The SEI does not certify appraisal results or organizations. The SEI licenses SEI Partners, authorizes lead appraisers, team leaders and certified high maturity lead appraisers to conduct appraisals. Neither the SEI nor any other organization is a “certifying authority” of the results from a SCAMPI appraisal. Therefore requests to the SEI to provide information to be used for this purpose can not be fulfilled. Information provided by the SEI, such as this briefing, is to demonstrate reported results of the use of CMMI products and services only.

Organizations performing source selection or verification should consider performing an evaluation appraisal. For more information on appraisal methods and for a directory of authorized lead appraisers who can perform them, visit:

http://www.sei.cmu.edu/appraisal-program/
Introduction: Purpose

Characterize the adoption of CMMI®

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPI℠) v1.1/v1.2 Class A appraisals using Capability Maturity Model® Integration (CMMI) v1.1 /v1.2 *

Encourage continued reporting of results

* Organizations previously appraised against CMMI v1.0 and which have not reappraised against v 1.1 are not included in this report

Please visit: http://www.sei.cmu.edu/appraisal-program/profile/index.html for additional information or questions you may have about this briefing before contacting the SEI directly
Introduction - 2: Briefing Contents

This briefing includes three primary sections:

1. Current Status
   - Snapshot of the software community based on the most recent appraisal, since 2002, of reporting organizations

2. Community Trends
   - Global distribution of appraisals
   - Growth in the number of appraisals performed
   - Shifts in the maturity profile over time

3. Organizational Trends
   - Analysis of Process Area (PA) satisfaction
   - Time to move up in maturity based on change in maturity level and time between appraisals
Section 1: Current Status

SCAMPI v1.1/v1.2 Class A appraisals conducted from the SCAMPI V1.1 April 2002 release through June 2008 and reported to the SEI by July 2008

- 3,553 appraisals
- 3,009 organizations
- 2,168 participating companies
- 451 reappraised organizations
- 17,398 projects
- 69.9% Non-USA organizations

Please refer to: Terms Used in this Report on page 30

Additional charts providing different views and break down of this information will be added to this briefing as more appraisal data is reported to the SEI over time.
Process Maturity Profile by All Reporting Organizations

Number Of Organizations

- Not Given: 7.9%
- Initial: 1.3%
- Managed: 32.2%
- Defined: 44.4%
- Quantitatively Managed: 3.0%
- Optimizing: 11.2%

Based on most recent appraisal of 3009 organizations
Process Maturity Profile (V1.2 Only) by All Reporting Organizations

Based on most recent appraisal of 958 organizations
Reporting Organization Categories

- Commercial/In-house: 73.0%
- Contractor for Military/Government: 22.1%
- Military/Government Agency: 4.9%

Based on 2983 organizations reporting an organization category.
Process Maturity Profile by Reporting Organization Categories

% Of Organizations Within Category

Not Given: 6.5% (Blue), 9.1% (Red), 23.1% (Yellow)
Initial: 1.0% (Blue), 2.0% (Red), 2.0% (Yellow)
Managed: 31.3% (Blue), 32.8% (Red), 45.6% (Yellow)
Defined: 46.3% (Blue), 42.1% (Red), 23.8% (Yellow)
Quantitatively Managed: 3.5% (Blue), 1.8% (Red), 0.7% (Yellow)
Optimizing: 11.4% (Blue), 12.2% (Red), 4.8% (Yellow)

Commercial/In-house = 2178
Contractor for Military/Government = 658
Military/Government Agency = 147

Based on most recent appraisal of 2983 organizations reporting an organization category.
Organization Type
Based on Primary Standard Industrial Classification (SIC) Code

Based on 2165 organizations reporting SIC code. For more information visit: http://www.osha.gov/oshstats/sicser.html
Organization Size
Based on the total number of employees within the area of the organization that was appraised

Based on 2968 organizations reporting size data
Maturity Profile by Organization Size

Based on the total number of employees within the area of the organization that was appraised

Based on 2968 organizations reporting size data
Disciplines Selected for Appraisals (V1.1 Only)

Based on 2,576 appraisals reporting discipline data

For more information about Allowable Models & Combinations, visit: http://www.sei.cmu.edu/cmmi/background/aspec.html
USA and Non-USA Reporting Organization Categories

Based on 905 USA organizations and 2082 Non-USA organizations reporting an organization category.
Maturity Profile by All Reporting USA and Non-USA Organizations

Based on 905 USA organizations and 2104 Non-USA organizations
Section 2: Community Trends

Appraisals conducted through June 2008 and reported to the SEI

• **63** Countries reported appraisals
  - most of the appraisals are from Asia and North America

• **2583** Appraisals were posted on PARS
  - the expired ones were removed and the reappraised were replaced by the newest appraisals
  - the posting rate is increasing and it is 88% for 2007 and it is 93% for 2008

Please refer to: Terms Used in this Report on page 30
Countries where Appraisals have been Performed and Reported to the SEI

Argentina  Australia  Austria  Bahrain  Bangladesh  Belarus  Belgium  Brazil
Bulgaria  Canada  Chile  China  Colombia  Costa Rica  Czech Republic  Denmark
Dominican Republic  Egypt  Finland  France  Germany  Hong Kong  Hungary  India
Indonesia  Ireland  Israel  Italy  Japan  Korea, Republic Of  Latvia  Lithuania
Luxembourg  Malaysia  Mauritius  Mexico  Morocco  Netherlands  New Zealand  Norway
Pakistan  Peru  Philippines  Poland  Portugal  Romania  Russia  Saudi Arabia
Singapore  Slovakia  South Africa  Spain  Sweden  Switzerland  Taiwan  Thailand
Turkey  Ukraine  United Arab Emirates  United Kingdom  United States  Uruguay  Vietnam

Red country name: New additions with this reporting
Number of Appraisals Reported to the SEI by Continent

Based on 3553 appraisals
## Number of Appraisals and Maturity Levels Reported to the SEI by Country

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<th>Country</th>
<th>Number of Appraisals</th>
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<th>Maturity Level 2 Reported</th>
<th>Maturity Level 3 Reported</th>
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Number of SCAMPI A Appraisals Reported to SEI by Year

Based on 3553 appraisals

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Trends in the Community Maturity Profile

Based on a cumulative view of the most recent appraisals of organizations up through the year indicated.
Section 3: Organizational Trends

Appraisals conducted through June 2008 and reported to the SEI

- 1,227 Process Area (PA) profiles
  - satisfaction of PAs by maturity level for organizations appraised at levels 1 and 2

- 451 reappraised organizations
  - accounting for 995 appraisals
  - although some organizations conducted multiple reappraisals, only the first and latest appraisals were used in creating the charts on pages 26

Please refer to: Terms Used in this Report on page 30
Organizations Appraised at Maturity Level 1

- **Optimizing**: CAR, OID
- **Quantitatively Managed**: QPM, OPP
- **Defined**: DAR, ISM, RSKM, IPM, OT, OPD, OFF, VAL, VER, PI, TS, RD
- **Managed**: CM, PPQA, MA, SAM, PMC, PP, REQM

Based on 70 appraisals reporting a maturity level 1 rating
Process Area Profiles - 2
Organizations Appraised at Maturity Level 2

Based on 1157 appraisals reporting a maturity level 2 rating
Maturity Level of First and Latest Appraisal

Based on 451 reappraised organizations using their first and latest appraisal

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Process Maturity Profile - Page 26
Time to Move Up

Number of months to move to next maturity level

- Largest observed value that is not an outlier
- 75th Percentile
- Median
- 25th Percentile
- Smallest observed value that is not an outlier

<table>
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<th>Time Period of Initial Appraisal</th>
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<th>2 to 3</th>
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<td>2006 to Present</td>
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<td>All (2002 to Present)</td>
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Summary - 1

3553 appraisals have been reported to the SEI in 76 months

The Organization Category of “Commercial/In-house” reports most of the appraisals

The highest percentage of “Commercial/In-house” reporting appraisals is from outside the USA

The highest percentage of “Military/Government Agency” reporting appraisals is from the USA

Outside the USA: China, India, Spain, Argentina, Brazil and Malaysia reported appraisals are increasing at a rapid rate
Summary - 2

For organizations that began their CMMI-based SCAMPI effort in 2002 or later, the median time to move from:

- maturity level 1 to 2 is 4 months
- maturity level 2 to 3 is 17 months
- maturity level 3 to 4 is 15.5 months
- maturity level 4 to 5 is 12.5 months
Terms Used in this Report

Company - Parent of the appraised entity
A company can be a commercial or non-commercial firm, for-profit or not for-profit business, a research and development unit, a higher education unit, a government agency, or branch of service, etc.

Organization - a.k.a. Appraised entity
The organization unit to which the appraisal results apply. An appraised entity can be the entire company, a selected business unit, units supporting a particular product line or service, etc.

Non-USA - Appraised entity whose geographic location is not within the United States. The parent of the appraised entity may or may not be based within the United States.
Report your Appraisal Results to the SEI

The briefing is only possible due to the cooperation of organizations and individuals sending in their appraisal results to the SEI

In order to provide this information and service in the future, it will depend on this continued cooperation

Please visit:

http://www.sei.cmu.edu/appraisal-program/profile/index.html

for forms, information, and instructions on how to report appraisals to the SEI
Contact Information

Please visit:

http://www.sei.cmu.edu/appraisal-program/profile/index.html

and review the information provided before contacting:

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