



CMMI on the Web: Remastered

**SEPG Asia Pacific 2009
September 2009**

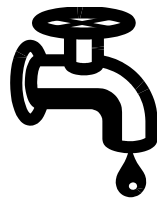


Report Documentation Page

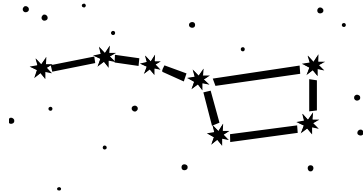
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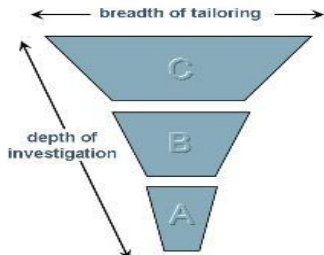
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a. REPORT	b. ABSTRACT	c. THIS PAGE			
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What's on Tap?

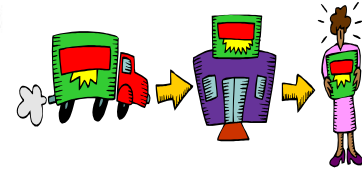


LEVELS



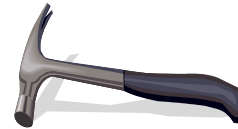
Software Engineering Institute | Carnegie Mellon

Published Appraisal Results



SPIN

Software and Systems Process Improvement Network



Software Engineering Institute

Carnegie Mellon

SEPG AP 2009
CMMI on the Web: Remastered

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Key Takeaways

- ✓ **Basic understanding of the CMMI Product Suite**
- ✓ **Starting and sustaining a CMMI-based process improvement initiative**
- ✓ **Online help for CMMI implementation**





What is an FFRDC

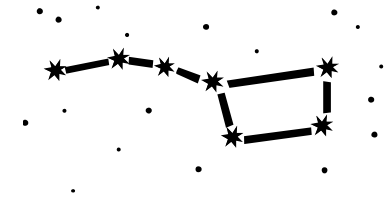


- ✓ **Federally Funded Research and Development Center (FFRDC)**
- ✓ **Unique entities sponsored and funded by the U.S. government to meet specific long-term needs**
- ✓ **FFRDCs work in the public interest and operate as strategic partners with their sponsoring government agencies**





Constellations - 1



What is a Constellation?

The CMMI Product Suite is a collection of all model components, training material components, and appraisal components organized by areas of interest called *constellations*.

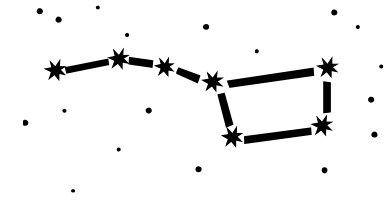
Each constellation is comprised of the following elements:

- ✓ the CMMI Model Foundation (CMF)
- ✓ named groups of process areas used to create CMMI models within that constellation
 - One example is the Engineering group process areas not included in the CMF to create CMMI for Development
 - Another example is the IPPD group of additions consisting of specific goals inserted into IPM and OPF to create the CMMI-DEV +IPPD model.
- ✓ generic practice elaborations for the process areas in the constellation
- ✓ appropriate training and appraisal materials





Constellations - 2



CMMI for Development, Version 1.2 (CMMI-DEV)

- ✓ CMMI-DEV addresses the development of product and service systems
- ✓ Download for free at:
www.sei.cmu.edu/library/abstracts/reports/06tr008.cfm

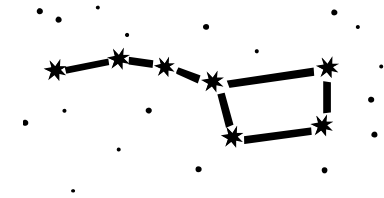
Designed to aid ANY organization that is developing products or services

- ✓ Used by organizations in Defense, Healthcare, Finance, Insurance, Telecommunications, and other industries.
- ✓ The practices are typically general enough to apply to both systems engineering and software engineering.





Constellations - 3



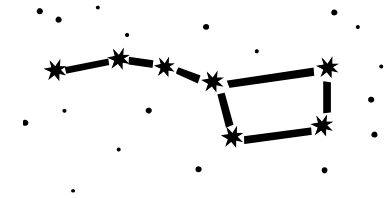
CMMI for Development, Version 1.2 (CMMI-DEV) – Presentations

- ✓ CMMI Executive Overview:
www.sei.cmu.edu/library/abstracts/presentations/exec-overview-2006.cfm
- ✓ CMMI Version 1.2 Overview:
www.sei.cmu.edu/library/abstracts/presentations/cmmi-v12-overview.cfm
- ✓ CMMI v1.2 Tutorial
<https://bscw.sei.cmu.edu/pub/bscw.cgi/0/444850>





Constellations - 4



CMMI for Acquisition, Version 1.2 (CMMI-ACQ)

- ✓ Released November 1, 2007
- ✓ Download for free at:
www.sei.cmu.edu/library/abstracts/reports/09tr001.cfm
- ✓ User site: <https://bscw.sei.cmu.edu/pub/bscw.cgi/0/507426>
- ✓ CMMI for Acquisition (CMMI-ACQ): A Short Overview (Video),
www.sei.cmu.edu/library/abstracts/videos/cmmiacqvideo.cfm



SURPRISED
BY WHAT YOUR
SUPPLIERS
DELIVER?

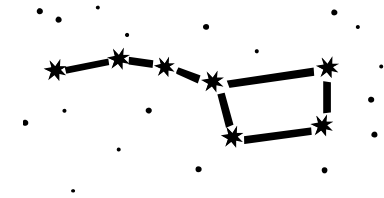
Designed to aid organizations that are acquiring products & services or outsourcing the development or delivery of products & services

- ✓ Provides guidance to enable informed and decisive acquisition leadership
- ✓ Defines effective and efficient practices for acquisition projects





Constellations - 5



CMMI for Services Version 1.2 (CMMI-SVC)

- ✓ Released February 25, 2009
- ✓ Download for free at:
www.sei.cmu.edu/library/abstracts/reports/07tr017.cfm
- ✓ User site: <https://bscw.sei.cmu.edu/pub/bscw.cgi/0/424939>

The purpose of the CMMI-SVC is to get the same results and benefits in their service deployment efforts that they currently enjoy in their development efforts.

CMMI for Services (CMMI-SVC): A Short Overview (Video),

- ✓ www.sei.cmu.edu/library/abstracts/videos/cmmisvc.cfm





Future version of CMMI...

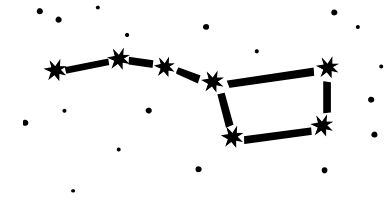
CMMI Version 1.3

- ✓ Expected sometime in Fall 2010
- ✓ CMMI Product Suite v1.3 and will focus on, but not be limited to:
 - Clarity of high maturity material
 - More effective generic practices
 - Appraisal efficiencies
 - Synchronize the architecture and content across constellations: Development, Acquisition, and Services
- ✓ **SEI Webinar Series: *CMMI Version 1.3 Product Suite*** by Mike Konrad & Rusty Young
www.sei.cmu.edu/library/abstracts/webinars/10feb2009.cfm
- ✓ **SEI Webinar Series: *CMMI v1.2 and Beyond*** by Mike Phillips and Mike Konrad
www.sei.cmu.edu/library/abstracts/webinars/23feb2009.cfm





Constellations - 6



CMMI-ACQ:

- * Agreement Management
- * Acq Requirements Development
- * Acq Technical Management
- * Acq Verification
- * Acq Validation
- * Solicitation and Supplier Agreement Development

**16 CMF
Process Areas:**

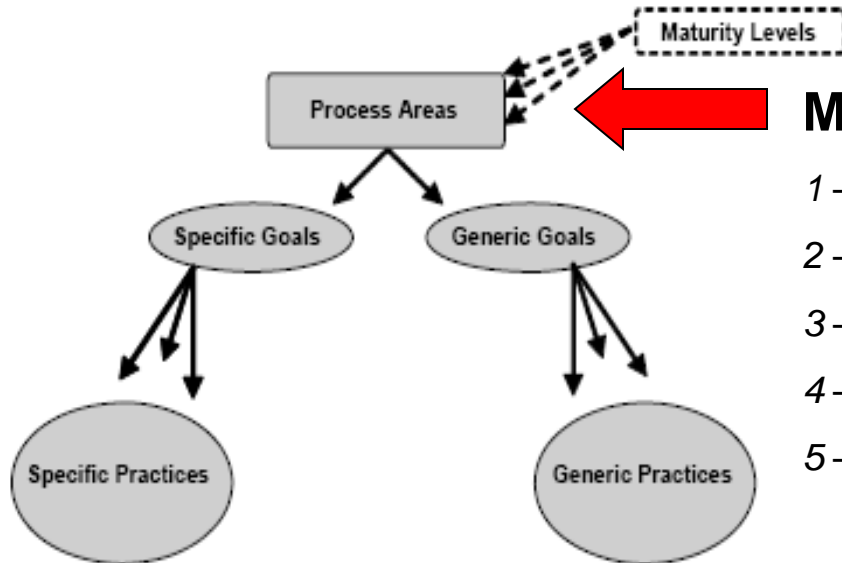
- * Causal Analysis and Resolution
 - * Configuration Management
- * Decision Analysis and Resolution
 - * Integrated Project Management
 - * Measurement and Analysis
 - * Organizational Innovation and Deployment
- * Organizational Process Definition
 - * Organizational Process Focus
- * Organizational Process Performance
 - * Organizational Training
 - * Project Monitoring and Control
 - * Project Planning
 - * Process and Product Quality Assurance
- * Quantitative Project Management
 - * Requirements Management
 - * Risk Management

CMMI-DEV:

- * Product Integration
- * Requirements Development
- * Supplier Agreement Management
- * Technical Solution
- * Validation
- * Verification



LEVELS - 1



Maturity Levels:

- 1 – *Initial*
- 2 – *Managed*
- 3 – *Defined*
- 4 – *Quantitatively Managed*
- 5 – *Optimizing*

- Used in Staged Representation
- Measure the process improvement achievements of the organization across multiple pre-planned PAs
- Recognized in some industries as a measure that can be used to compare one organization to another



LEVELS - 2



Capability Levels:

0 – Incomplete

1 – Performed

2 – Managed

3 – Defined

4 – Quantitatively Managed

5 – Optimizing

- Used in Continuous Representation
- Measure an organization's process improvement achievement within a single process area or multiple selected PAs
- Organization can choose which areas to emphasize



LEVELS - 3



Sampling of Implementers' Views of Maturity Levels 2 & 3

- ✓ ***CMMI Level 2 Within Six Months? No Way!*** by George Jackelen, Global Analytic Information Technology Services, Inc. CrossTalk Feb. 2007
www.stsc.hill.af.mil/CrossTalk/2007/02/0702Jackelen.html
- ✓ ***Delivering a CMMI Compliant Project Plan in 30 Minutes*** by Kevin Scaaff, BAH, Mike Busak, Select Business Solutions, March 2005
www.sei.cmu.edu/library/abstracts/presentations/Schaaf-SEPG2005.cfm
- ✓ ***CMMI Crash Course: What the SEI Won't Teach You*** by Hillel Glazer, Entinex, Inc.
www.sei.cmu.edu/library/abstracts/presentations/Glazer-SEPG2008.cfm
- ✓ **CMMI Level 3 Blog**
<http://technorati.com/posts/tag/CMMI+Level+3>
- ✓ ***Do's and Don'ts of Process Improvement*** by Pat O'Toole, PACT
www.sei.cmu.edu/library/abstracts/presentations/OToole-SEPG2008.cfm



LEVELS - 4



High Maturity (Levels 4-5)

- ✓ Informative Material Is Important to CMMI Model Interpretation and Implementation
 - ❖ Compared to levels 2-3, there is less experience with or external reference material explaining the practices at levels 4-5.
- ✓ The Challenge of CMMI Level 4-5 Interpretation and Implementations Web page: <http://www.sei.cmu.edu/cmmi/casestudies/adoption/informative.cfm>
- ✓ **SEI Webinar Series: A Jumpstart Method for Business Goals and Project Objectives Supporting CMMI High Maturity** by Robert Stoddard
www.sei.cmu.edu/library/abstracts/webinars/21aug2008.cfm
- ✓ **Use and Organizational Effects of Measurement and Analysis in High Maturity Organizations: Results from the 2008 SEI State of Measurement and Analysis Practice Surveys**
- ✓ www.sei.cmu.edu/library/abstracts/reports/08tr024.cfm



LEVELS - 5



Sampling of Implementers' Views of Maturity Levels 4 & 5

- ✓ SEPG North America 2008 Tutorial: ***If You're Living the "High Life," You're Living the Informative Material*** by Rusty Young, Bob Stoddard, and Mike Konrad, SEI
www.sei.cmu.edu/library/abstracts/presentations/Young-2007.cfm
- ✓ ***High Maturity Misconceptions: Common Misinterpretations of CMMI Maturity Levels 4 & 5***, Will Hayes, SEI, March 2007
www.sei.cmu.edu/library/abstracts/presentations/Hayes-2007.cfm
- ✓ ***The Value of High Maturity***
www.dtic.mil/ndia/2004cmmi/CMMIT5WedAM/1333RickHefner.pdf
- ✓ ***V1.2 High Maturity: What should I expect to see in a V1.2 High Maturity Appraisal*** by John Ryskowski, JFR Consulting
www.dtic.mil/ndia/2008cmmi/Track4/Thursday/PM/7203ryskowski.pdf
- ✓ ***CMMI Implementation: Embarking on High Maturity Practices*** (Book) Shivraj Kanungo and Asha Goyal. August 2004



LEVELS - 6

High Maturity (Levels 4-5) Courses

✓ SEI High Maturity Courses:

- Understanding CMMI High Maturity Practices
- CMMI and Six Sigma: Strategies for Joint Implementation
- Improving Process Performance Using Six Sigma
- Designing Products and Processes Using Six Sigma

❖ See www.sei.cmu.edu/products/courses for details on each

✓ Examples of Other High Maturity Courses (not a complete list):

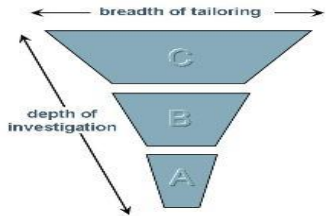
- Systems and Software Consortium: Introduction to Higher Maturity Measurement

www.software.org/events_training/training/calendar/default.aspx?course=19

- Process Strategies, Inc: Measurement & High Maturity Workshop

http://process-strategies.com/APM_HiM_ws.html





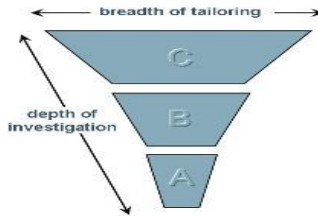
Appraisal Information - 1

Three Appraisal Classes (A, B and C)

- ✓ **SCAMPI A:**
 - Most rigorous method
 - The only method resulting in ratings
- ✓ **SCAMPI B:**
 - Provides options in model scope
 - Characterization of practices is fixed to one, three-point scale
 - Performed on implemented practices
- ✓ **SCAMPI C:**
 - Wide range of options with scale defined by the user
 - Characterization of planned approaches to process implementation

www.sei.cmu.edu/cmmi/tools/appraisals/classes.cfm





Appraisal Information - 2

Appraisal Publications and Presentations

SCAMPI Method Definition Document (MDD):

www.sei.cmu.edu/reports/06hb002.pdf

SCAMPI B&C Handbook:

www.sei.cmu.edu/library/abstracts/reports/05hb005.cfm

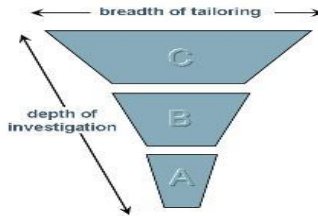
For more on appraisals in general:

www.sei.cmu.edu/cmml/tools/appraisals/

Appraisal related presentations:

www.sei.cmu.edu/library/





Appraisal Information - 3

Are you ready for your appraisal?

- ✓ The steps found at this URL demonstrate the typical steps involved in implementing CMMI-based process improvement:

www.sei.cmu.edu/cmmi/start/index.cfm

- ✓ ***Top 10 Signs You're Ready (or Not) for an Appraisal***, Gary Natwick, Harris Corporation, November 2005

www.dtic.mil/ndia/2005cmmi/tuesday/natwick.pdf

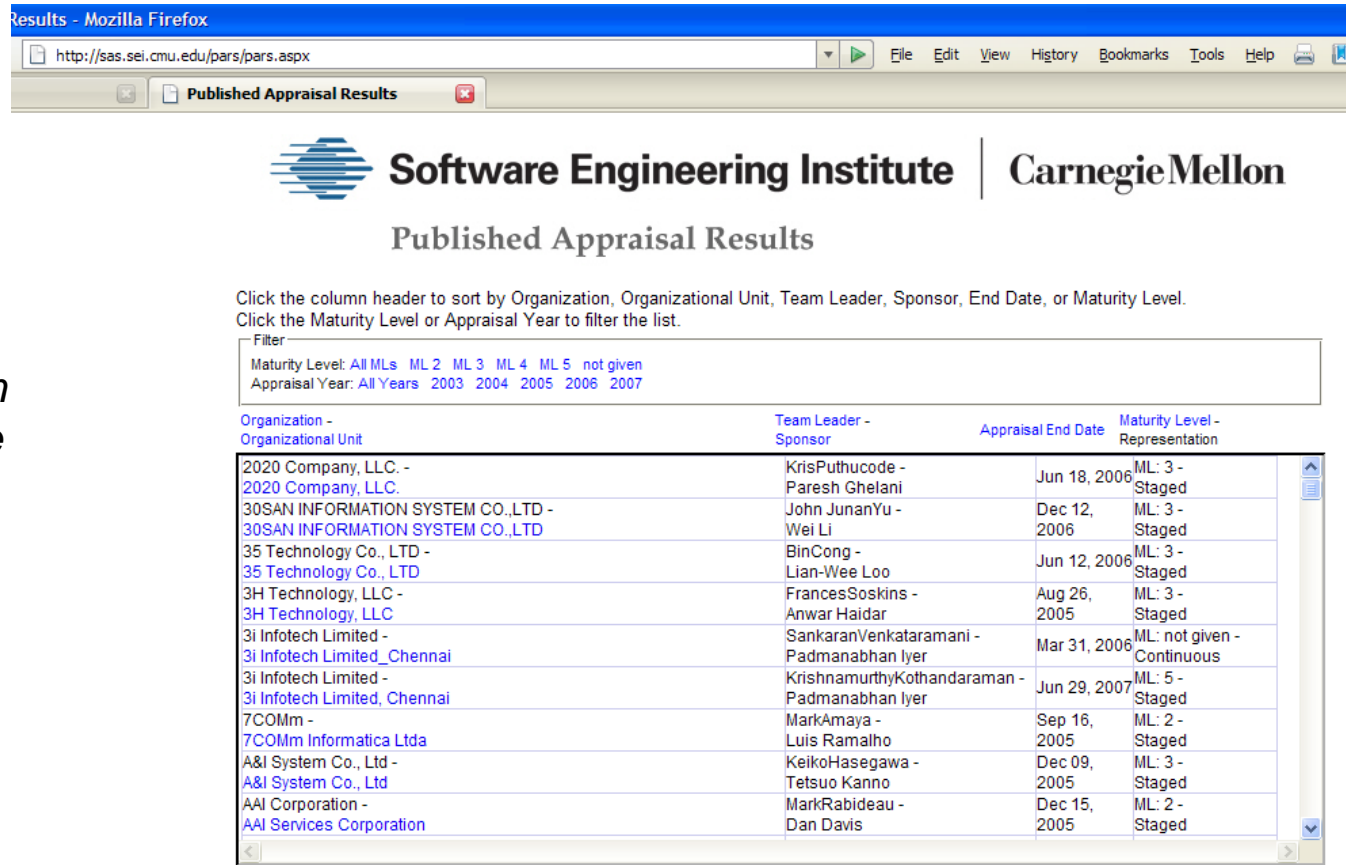


Appraisal Results - 1

Current list of completed, and reported, SCAMPI Class A appraisals

• *Please note: must have provided the SEI with written authorization for this release of information to be on list*

<http://sas.sei.cmu.edu/pars>



The screenshot shows a Mozilla Firefox browser window displaying the 'Published Appraisal Results' page. The page header includes the Software Engineering Institute and Carnegie Mellon logos. Below the header, there is a filter section with options for Maturity Level (All MLs, ML 2, ML 3, ML 4, ML 5, not given) and Appraisal Year (All Years, 2003, 2004, 2005, 2006, 2007). The main content is a table with the following columns: Organization - Organizational Unit, Team Leader - Sponsor, Appraisal End Date, and Maturity Level - Representation.

Organization - Organizational Unit	Team Leader - Sponsor	Appraisal End Date	Maturity Level - Representation
2020 Company, LLC. - 2020 Company, LLC.	KrisPuthucode - Paresh Ghelani	Jun 18, 2006	ML: 3 - Staged
30SAN INFORMATION SYSTEM CO.,LTD - 30SAN INFORMATION SYSTEM CO.,LTD	John JunanYu - Wei Li	Dec 12, 2006	ML: 3 - Staged
35 Technology Co., LTD - 35 Technology Co., LTD	BinCong - Lian-Wee Loo	Jun 12, 2006	ML: 3 - Staged
3H Technology, LLC - 3H Technology, LLC	FrancesSoskins - Anwar Haidar	Aug 26, 2005	ML: 3 - Staged
3i Infotech Limited - 3i Infotech Limited_Chennai	SankaranVenkataramani - Padmanabhan Iyer	Mar 31, 2006	ML: not given - Continuous
3i Infotech Limited - 3i Infotech Limited_Chennai	KrishnamurthyKothandaraman - Padmanabhan Iyer	Jun 29, 2007	ML: 5 - Staged
7COMm - 7COMm Informatica Ltda	MarkAmaya - Luis Ramalho	Sep 16, 2005	ML: 2 - Staged
A&I System Co., Ltd - A&I System Co., Ltd	KeikoHasegawa - Tetsuo Kanno	Dec 09, 2005	ML: 3 - Staged
AAI Corporation - AAI Services Corporation	MarkRabideau - Dan Davis	Dec 15, 2005	ML: 2 - Staged

[Go to SAS Homepage](#)

Appraisal Results - 2

Ultimately, any appraised entity receives an Appraisal Disclosure Statement (ADS) and a Final Findings Report from their Lead Appraiser.

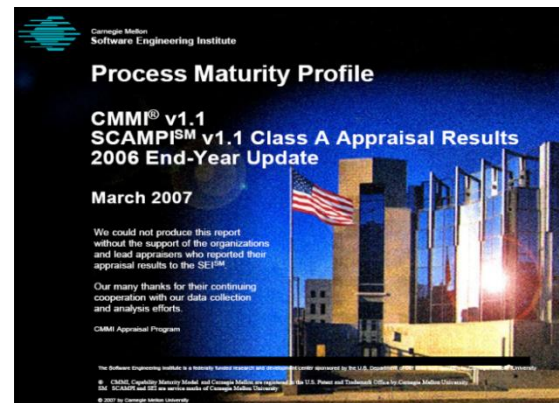
- ✓ This form documents the achieved maturity level or capability level profile.
- ✓ Also documents which parts of the organization were appraised.
- ✓ This report is owned by the sponsoring organization. This does not come from the SEI.



Appraisal Results - 3

Process Maturity Profile

- ✓ Summarizes appraisal results and other information for a particular time period
- ✓ These profiles are intended to provide a snapshot of the state of process maturity in a way that individual organizations' maturity levels cannot be identified or inferred



<http://www.sei.cmu.edu/cmml/casestudies/profiles/cmml.cfm>





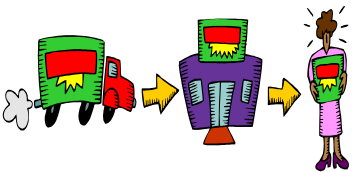
Appraisal Results - 4



- ✓ SAS is where Lead Appraisers submit appraisal results
- ✓ SAS is also where Introduction to CMMI attendees are automatically added to the Appraisal Team Member pool.

<http://sas.sei.cmu.edu>





Process Improvement Support - 1

Starting a Process Improvement Initiative - 1

- Link to this page directly from SEI Homepage:
www.sei.cmu.edu (click on *SEI Partner Network*)

Select "SEI Partners"

Software Engineering Institute | Carnegie Mellon

A-Z Index Search

HOME | OUR WORK | OUR SOLUTIONS | PRODUCTS & SERVICES | LIBRARY | NEWS | CAREERS | ABOUT US

- Professional Development
- SEI Training
- SEI Partner Network
- SEI Certification
- SEI Membership
- SEI Calendar of Events
- Tools & Methods
- Research
- Consulting

Acquisition

Process Management

Risk

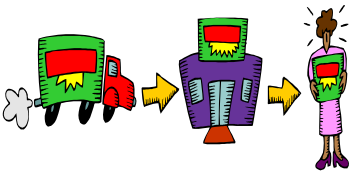
Security

VTE Helps DoD Meet Remote Training Requirements and Cut Costs

Since the approval of DoD Directive 8570.01 in December 2005, DoD organizations have had to scramble to identify new and better avenues for training.

Software Development

System Design



Process Improvement Support - 2

Starting a Process Improvement Initiative - 2

[Partner services.](#)

SEI Partner

Name:

Name Contains:

SEI Partner Course or Service

Course or Service:

SEI Partner Location

Country:

State (for USA only):

Language

Language:

Reset

Find a Partner

Links

[SEI Partner Application](#)

[Published Appraisal Results](#)

[Current Partners](#)

[BPoC Directory Login](#)

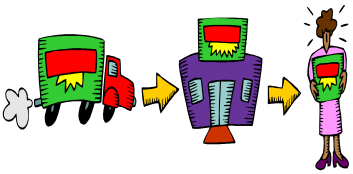
[Partner Resource Center](#)

Dropdown lists **ALL** SEI Partner organizations

Either select "**CMMI Product Suite**" or "**SCAMPI Appraisal Services**"

Refine your search by searching for nearby locations





Process Improvement Support - 3

Starting a Process Improvement Initiative - 3

- ✓ Are you looking for a specific name or SEI-certified role, HMLA for ex.?

Enter name

HOME PARTNER SERVICES BECOME A PARTNER NEWS FIND A PARTNER PARTNER RESOURCES ADVISORY BOARD

Find an SEI Partner Sponsored Individual

SEI Partner sponsored individuals are the instructors, appraisers, and coaches who deliver authentic SEI services under the supervision of SEI Partner organizations. Sponsored individuals undergo rigorous training and perform SEI-monitored maintenance activities to ensure that they are qualified to teach SEI courses and provide SEI services.

Find an SEI Partner Organization

► Find an SEI Partner Sponsored Individual

SEI Partner Sponsored Individual

First Name:

Last Name:

SEI Courses and Services

Course or Service

Links

[SEI Partner Application](#)

[Published Appraisal Results](#)

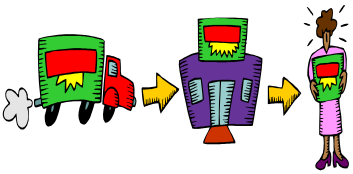
Current Partners

[BPoC Directory Login](#)

[Partner Resource Center](#)

Dropdown lists
ALL SEI Roles

Clicking "**Search for Authorized Individual**" at any time will return **ALL** individuals for given criteria



Process Improvement Support - 4

Look here when interpretation/implementation issues arise:

- ✓ Yahoo! Discussion Group:

http://groups.yahoo.com/group/cmml_process_improvement

- ✓ Ask the CMMI Appraiser Blog:

<http://askthecmmlappraiser.blogspot.com>

- ✓ CMMI for Services Diary

www.cmmiforservicesdiary.com

- ✓ Send questions to cmml-comments@sei.cmu.edu

- ✓ SPIN Meetings...



Software and Systems Process Improvement Network

SPIN chapters offer a forum for the *FREE* and open exchange of process improvement experiences, ideas, information and mutual support

- ✓ Find a local network of process improvement enthusiasts near you
- ✓ SPIN US Directory: <http://www.sei.cmu.edu/spin/find/us/index.cfm>
- ✓ SPIN International Directory: <http://www.sei.cmu.edu/spin/find/international/index.cfm>

Other Benefits of SPIN

- ✓ Opportunities for professional accreditation by attending meetings
- ✓ Networking/professional development
- ✓ Discounts on SEI Membership: www.sei.cmu.edu/membership





Return on Investment

Where can you find quantitative evidence on the benefits of process improvement based on CMMI models?

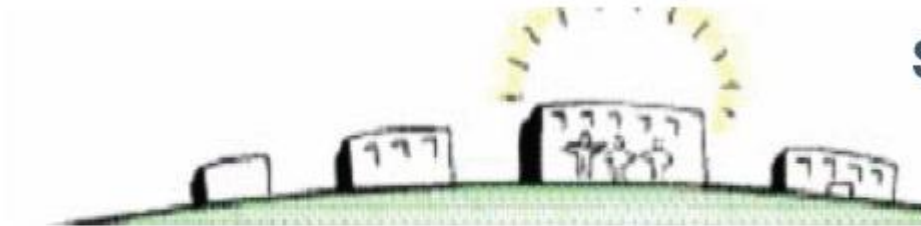
- ✓ CMMI Performance Results:
www.sei.cmu.edu/cmmi/research/results/index.cfm
- ✓ **Performance Results of CMMI-Based Process Improvement:**
www.sei.cmu.edu/library/abstracts/reports/06tr004.cfm
- ✓ **Why Make the Switch? Evidence about the Benefits of CMMI**
www.sei.cmu.edu/library/abstracts/presentations/Goldenson-SEPG2004.cfm
- ✓ **Achieving the Promised Benefits of CMMI**
www.dtic.mil/ndia/2005cmmi/wednesday/hefner2.pdf
- ✓ cogence, Inc: www.cogence.com/resources.html
- ✓ DACS ROI Dashboard: www.thedacs.com/databases/roi





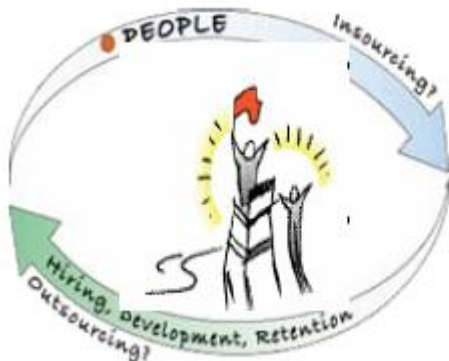
CMMI in Small Settings - 1

What is a “Small Setting”?



Small Companies (<100 people)

Small Organizations (<50 people)



Small Projects (<20 people)





CMMI in Small Settings - 2

- ✓ For organizations that are small businesses, groups, or projects in their software and systems development chain, the SEI is offering the Improving Processes in Small Settings (IPSS) project:

www.sei.cmu.edu/iprc/ipss.html

- ✓ CMMI in Small Settings Toolkit Repository:

www.sei.cmu.edu/cmml/publications/toolkit

- ✓ CMMI Level 2 Boot Camp for Small Organizations offered by Turner Consulting Group:

www.cmmibootcamp.com/aboutTCG.html





CMMI in Small Settings - 3

- ✓ **SEI Webinar Series: *Process Improvement at the Edges*** by SuZ Garcia

<http://www.sei.cmu.edu/library/abstracts/webinars/18dec2008.cfm>

- ✓ ***Achieving CMMI®-Dev + IPPD Version 1.2 Maturity Level 3 in a Small Organization Planning/ Implementing/Appraising*** by Donna Lee, United Space Alliance

www.dtic.mil/ndia/2008cmmi/Track7/Thursday/PM/7001lee.pdf

- ✓ **Lessons Learned from Adopting CMMI for Small Organizations**

www.sei.cmu.edu/library/abstracts/presentations/Garcia-SEPG2005.cfm

- ✓ **Other useful presentations:**

[www.dtic.mil/ndia/2004cmmi/CMMIT7Tue/CMMI for small business NatG11092004.pdf](http://www.dtic.mil/ndia/2004cmmi/CMMIT7Tue/CMMI_for_small_business_NatG11092004.pdf)

www.dtic.mil/ndia/2004cmmi/CMMIT7WedPM/enabler.pdf





CMMI with Other Standards, Approaches, Models - 1

CMMI with: - 1

- ✓ Process Improvement in Multi-Model Environments ([PrIME](#))
 - ❖ **SEI Webinar Series, *Process Improvement in Multi-Model Environments*** by Jeannine Sivy and Patrick Kirwin: www.sei.cmu.edu/library/abstracts/webinars/18jul2008.cfm
 - ❖ Also see: www.sei.cmu.edu/prime
- ✓ ISO 9001/15504/12207/15288
 - ❖ *Process Improvement with CMMI V1.2 and ISO Standards* by Boris Mutafelija and Harvey Stromberg (Book)
 - ❖ www.sei.cmu.edu/library/abstracts/presentations/Mutafelija-SEPG2003.cfm
 - ❖ www.sei.cmu.edu/library/abstracts/reports/09sr005.cfm
 - ❖ www.wibas.de/download/cmmi_introduction_dnd.pdf
- ✓ TSP
 - ❖ www.sei.cmu.edu/library/abstracts/reports/04tr014.cfm
 - ❖ www.dtic.mil/ndia/2003CMMI/Hale.ppt





CMMI with Other Standards, Approaches, Models - 2

CMMI with: - 2

✓ Six Sigma

- ❖ www.sei.cmu.edu/library/abstracts/books/0321516087.cfm
- ❖ www.sei.cmu.edu/library/abstracts/dvds/A-Base-Case-for-Multi-Model-Process-Improvement.cfm
- ❖ www.sei.cmu.edu/library/abstracts/presentations/Facemire-SEPG2004.cfm
- ❖ www.sei.cmu.edu/library/abstracts/presentations/Pickerill-SEPG2005.cfm
- ❖ www.sei.cmu.edu/library/abstracts/presentations/sixsigmasiviypennsepg2003.cfm
- ❖ www.dtic.mil/ndia/2004cmmi/CMMIT7Thur/CMMIUsersGroupjmsiviy.pdf
- ❖ www.dtic.mil/ndia/2003CMMI/Hefner2.ppt





CMMI with Other Standards, Approaches, Models - 3

CMMI with: - 3

✓ Agile

- ❖ www.agilemanagement.net/Articles/MSF/CMMIandtheDeclarationofIn.html
- ❖ www.agilecmmi.com
- ❖ SEI Webinar Series: *CMMI-Agile* by Mike Konrad
www.sei.cmu.edu/library/abstracts/webinars/13nov200802.cfm

✓ PCMM

- ❖ <https://seir.sei.cmu.edu/seir> (free registration required)

✓ Product Lines

- ❖ www.sei.cmu.edu/library/abstracts/reports/05tn028.cfm





CMMI with Other Standards, Approaches, Models - 4

CMMI with: - 4

✓ Cobit

- ❖ www.isaca.org/Template.cfm?Section=Downloads3&Template=/TaggedPage/TaggedPageDisplay.cfm&TPLID=63&ContentID=13742

✓ ITIL

- ❖ www.itil.co.uk
- ❖ <https://bscw.sei.cmu.edu/pub/bscw.cgi/d426144/ITIL%20Comparison>

✓ PMBOK

- ❖ <https://bscw.sei.cmu.edu/pub/bscw.cgi/0/417678>

✓ RUP

- ❖ www.cognence.com/pdfs/CMMI_ProcessAndRequirementsManagement_WhitePaper%20v1.0.pdf
- ❖ www.sei.cmu.edu/library/abstracts/presentations/Gallagher-2001.cfm
- ❖ <https://bscw.sei.cmu.edu/pub/bscw.cgi/d426144/ITIL%20Comparison>





CMMI with Other Standards, Approaches, Models - 5

CMMI with/and:

- ✓ Interpreting Capability Maturity Model Integration (CMMI) for Business Development Organizations in the Government and Industrial Business Sector
 - ❖ www.sei.cmu.edu/library/abstracts/reports/07tn004.cfm
- ✓ +SAFE, V1.2: A Safety Extension to CMMI-DEV, V1.2
 - ❖ www.sei.cmu.edu/pub/documents/07.reports/07tn006.pdf
- ✓ Multi-model comparison tool developed by ISD:
www.isd-inc.com/tools.modelWizard
- ✓ Several other models: www.computerworld.com/printthis/2004/0,4814,90797,00.html
- ✓ Also see **SEI Webinar Series: CERT Resiliency Engineering Framework (REF)** by Rich Caralli: www.sei.cmu.edu/library/abstracts/webinars/11sep2008.cfm





CMMI Education & Training - 1

Introduction to CMMI Version 1.2*

www.sei.cmu.edu/training/p44b.cfm

Intermediate Concepts of CMMI

www.sei.cmu.edu/training/a02b.cfm

CMMI Instructor Training

www.sei.cmu.edu/training/p37b.cfm

Lead Appraiser Training

www.sei.cmu.edu/training/a04.cfm

CMMI and Six Sigma

www.sei.cmu.edu/training/p71.cfm

Understanding CMMI High Maturity Practices

www.sei.cmu.edu/training/p14b.cfm

B and C Team Leader Training

www.sei.cmu.edu/training/p53.cfm

CMMI-Based Overview

www.sei.cmu.edu/training/p40.cfm

CMMI Version 1.2 Upgrade Training*

www.sei.cmu.edu/training/p57.cfm

CMMI for Acquisition Supplement for Introduction to CMMI Version 1.2

www.sei.cmu.edu/training/p62b.cfm

CMMI for Services Supplement for Introduction to CMMI Version 1.2

www.sei.cmu.edu/training/p69.cfm

***CMMI Level 2 and 3 for Practitioners**

www.sei.cmu.edu/training/p74.cfm

*Available from  SEI Partner Network



CMMI Education & Training - 2

Paths to Individual Authorization:

SCAMPI v1.2 Lead Appraiser (LA) Course:

www.sei.cmu.edu/training/a04.cfm

Prerequisites and Certification Procedure:

www.sei.cmu.edu/certification/process/scampi/index.cfm

CMMI v1.2 Instructor Course:

www.sei.cmu.edu/training/p37b.cfm

Prerequisites :

www.sei.cmu.edu/partners/become/cmmi/

Core Courses:

1.) * Introduction to CMMI v1.2:

www.sei.cmu.edu/training/p44b.cfm

2.) Intermediate Concepts of CMMI v1.2:

www.sei.cmu.edu/training/a02b.cfm

*CMMI for Acquisition or Services Supplement

SCAMPI High Maturity LA

Prerequisites and Certification Procedure:

www.sei.cmu.edu/certification/process/scampi/scampihmla.cfm

SCAMPI B & C Team Lead Course:

www.sei.cmu.edu/training/p53.cfm

Prerequisites :

www.sei.cmu.edu/partners/become/scampi/





CMMI Related Conferences

✓



www.sei.cmu.edu/sepg

- **SEPG Asia Pacific 2009 : September 16-18, Osaka, Japan**
- **SEPG North America 2010: March 22-25, Savannah, GA**
- **SEPG Europe 2010: TBD**

✓ **9th Annual CMMI Tech Conference & User Group: Nov 16-19, 2009, Denver, CO**

www.ndia.org/events/0110/Pages/0110_CMMI9thAnnualTechnologyConferenceandUserGroup.aspx





CMMI Change Requests

To request a change to the CMMI and Appraisal Requirements for CMMI (ARC): www.sei.cmu.edu/cmmi/tools/cr/index.cfm





CMMI Brand and Identity

The SEI does not grant permission for the use of the CMMI logo in conjunction with CMMI level achievements because the SEI does not certify the results of the appraisal.



The correct terminology, if an organization wishes to announce that it has had an appraisal, is: "X organization has been appraised on xx/xx/xxxx at Maturity Level Y of CMMI^(R) (version Z) by an SEI-authorized Lead Appraiser."

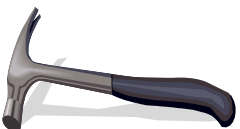
www.sei.cmu.edu/legal/permission/index.cfm



How to Recognize an SEI-Authorized Service Provider

When looking for organizations authorized to offer SEI course or services look for the *SEI Partner logo*:





CMMI Tools, Books & Forums - 1



Tools – 1

Pocket CMMI® SVC, Kugler Maag

www.kuglermaag.com/webshop_treasure_chest.html



CMMIFAQ.INFO, *Entinex, Inc.*

www.cmmifaq.info

MINI CMMI for Development (v1.2), Cooliemon, LLC

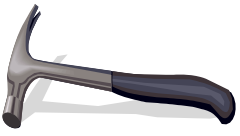
www.cooliemon.com/products.asp



CMMI v1.2 Glossary (*Christophe Guibert*)

<http://chrquibert.free.fr/cmmi12/cmmi-dev/text/index.php>





CMMI Tools, Books & Forums - 2



Tools - 2

Online CMMI Tool, *Borland*

www.borland.com/us/services/cmmi.html

Multi-Dimensional Maturity:

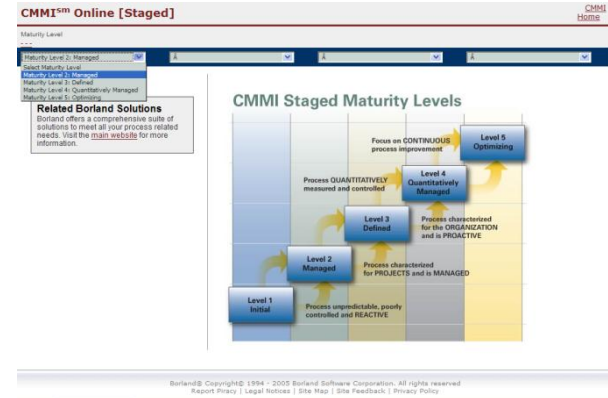
www.mdmaternity.com/reference.php

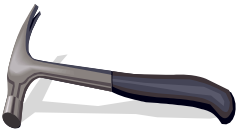
CMMI v1.2 Goal & Practice Search Engine, *Abridge Technology*

www.abridge-tech.com (click on “tools”)

The Process Group's newsletter

www.processgroup.com





CMMI Tools, Books & Forums - 3



Tools - 3

CMMI v1.2 Browser, *Wibas GmbH's*

www.cmmi.de/cmmi_v1.2/browser.html

Representation	Process Area	Goals & Practices
Staged	CAR SUP 5 CAUSAL ANALYSIS AND RESOLUTION	SG 1 Evaluate Alternatives
Continuous	CM SUP 2 CONFIGURATION MANAGEMENT	GG 1 Achieve Specific Goals
Both	DAR SUP 3 DECISION ANALYSIS AND RESOLUTION	GG 2 Institutionalize a Managed Process
Category	PI MAN 3 INTEGRATED PROJECT MANAGEMENT +IPD	GG 3 Institutionalize a Defined Process
all all categories	MA SUP 2 MEASUREMENT AND ANALYSIS	GG 4 Institutionalize a Quantitatively Managed Proc
PRO Process Management	OD PRO 5 ORGANIZATIONAL INNOVATION AND DEPLOYMENT	GG 5 Institutionalize an Optimizing Process
MAN Project Management	OPD PRO 3 ORGANIZATIONAL PROCESS DEFINITION +IPD	
SUP Support	OPP PRO 4 ORGANIZATIONAL PROCESS PERFORMANCE	
ENG Engineering	OT PRO 3 ORGANIZATIONAL TRAINING	
Show IPD Addition <input checked="" type="checkbox"/>	PI ENG 3 PRODUCT INTEGRATION	

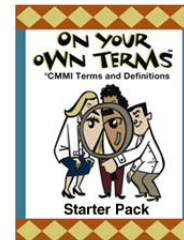
DECISION ANALYSIS AND RESOLUTION

A Support Process Area at Maturity Level 3

[Purpose](#)

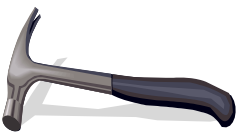
CMMI Starter Cards, *KAMO Consultancy*

www.kamoconsultancy.com/products.asp



Crosstalk, *STSC*

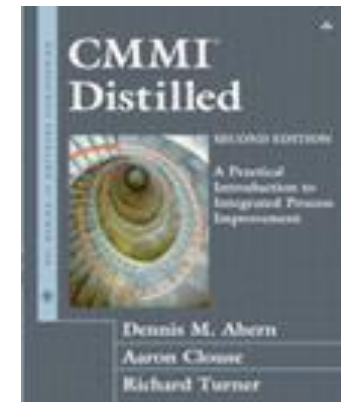
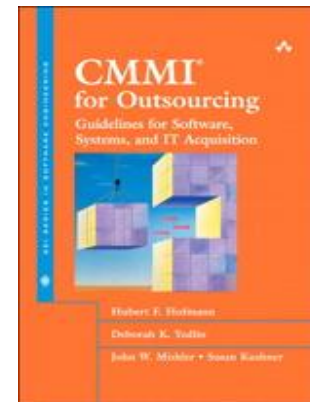
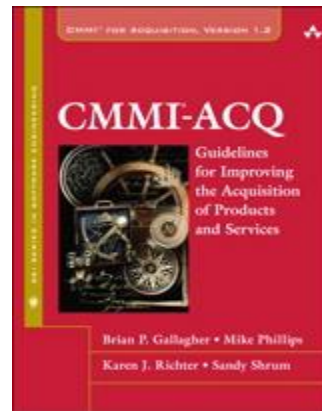
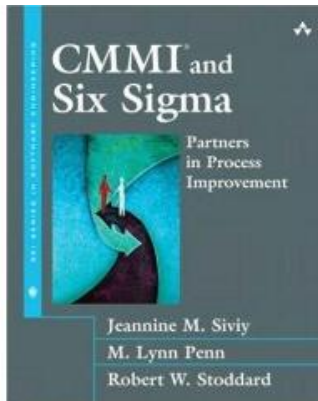
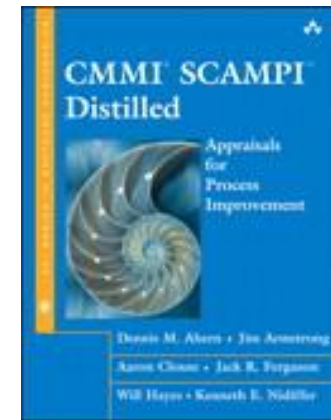
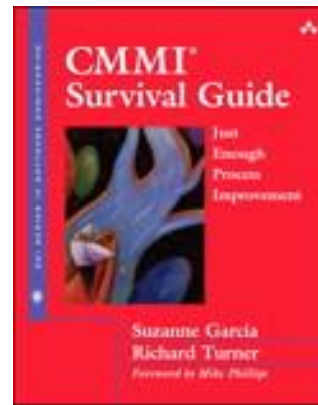
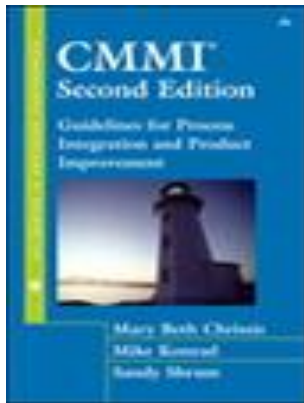
www.stsc.hill.af.mil/crosstalk/subscribe.html

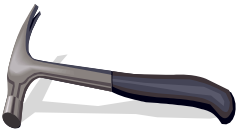


CMMI Tools, Books & Forums - 4



Books: www.awprofessional.com/seiseries





CMMI Tools, Books & Forums - 5



Forums

✓ *Software Engineering Information Repository (SEIR)* is used to contribute and exchange information about software engineering improvement activities, including CMMI.

<https://seir.sei.cmu.edu/seir>

✓ The *BSCW Shared Workspace* is a forum used to contribute and exchange CMMI-related materials:

- CMMI for Development: <https://bscw.sei.cmu.edu/pub/bscw.cgi/0/79783>
- CMMI for Acquisition: <https://bscw.sei.cmu.edu/pub/bscw.cgi/0/507426>
- CMMI for Services: <https://bscw.sei.cmu.edu/pub/bscw.cgi/0/424939>

✓ CMMI *Yahoo! discussion groups*

http://groups.yahoo.com/group/cmmi_process_improvement

✓ Wikipedia CMMI Page

<http://en.wikipedia.org/wiki/CMMI>



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