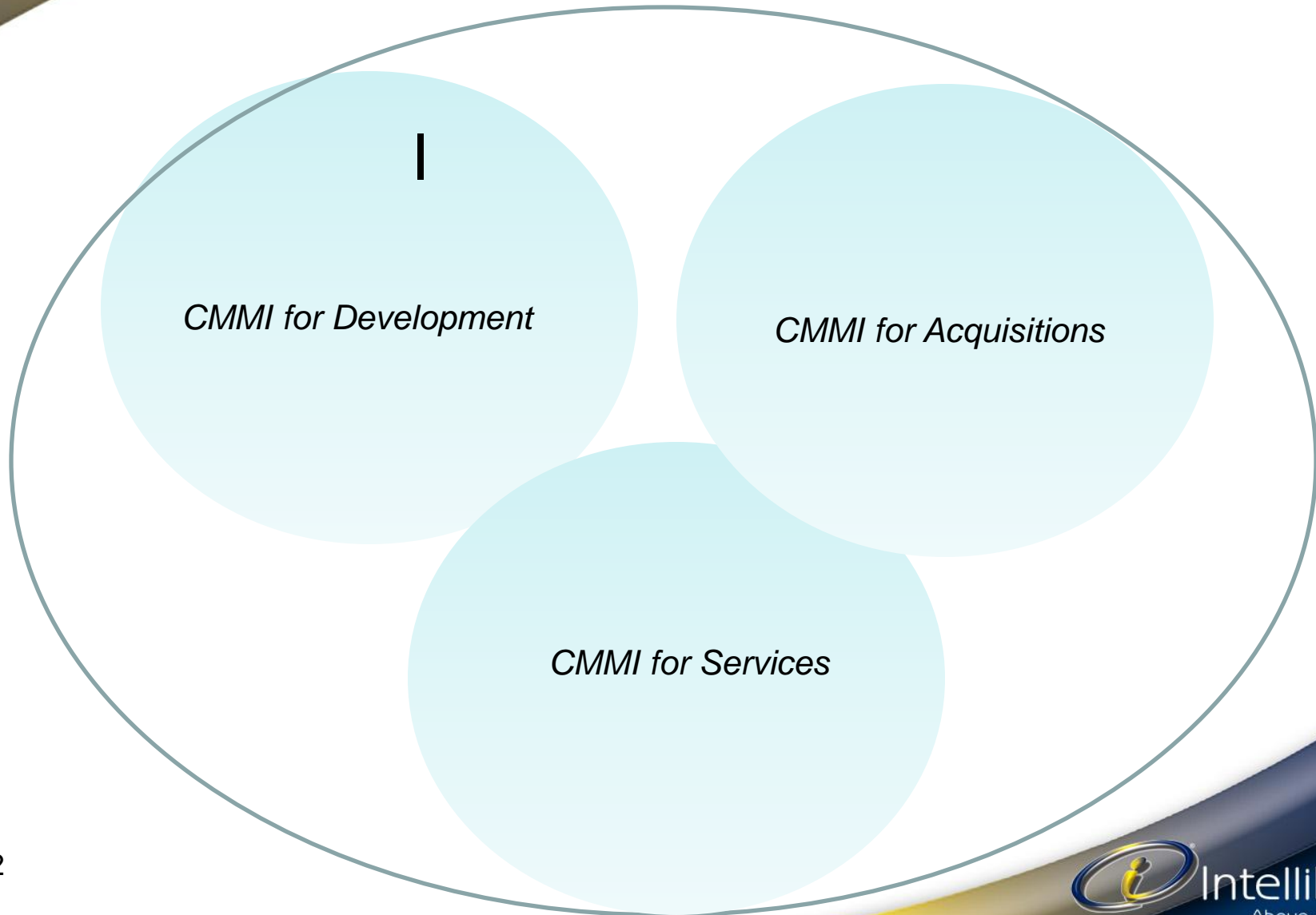


Major Changes in CMMI v1.3

Configuration Management Working Group
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CMMI v1.3



Introduction

- The SEI released Version 1.3 of the CMMI in November of 2010
 - **Version 1.2 will be “sunset” on November 30, 2011**
- CMMI Version 1.3 is a release of CMMI models, appraisal method, and training for three areas of interest:
 - Product and Service Development (CMMI for Development)
 - Service Establishment, Management, and Delivery (CMMI for Services)
 - Product and Service Acquisition (CMMI for Acquisition)
- With the release of the new version CMMI Version 1.3, the CMMI Model document for two (out of three) constellations was reduced.
 - CMMI Team was able to reduce the overall size of the CMMI for Development (CMMI-DEV) Model by 100 pages by clarifying and consolidating the practices.



History

- **Version 1.2 of the CMMI models was released in recent years**
 - **CMMI for Development was released in August 2006**
 - **CMMI for Acquisition was released in November 2007**
 - **CMMI for Services was released in February 2009**
- **Due to the time in between these releases, they have become inconsistent**
- **The work done by Version 1.3 ensures the consistency of these models.**



Summary of Changes

- **Changes in the CMMI Version 1.3 can be categorized into the following types:**
 - **More clarifications on high maturity concepts**
 - **“High Maturity” topics were revised based on experience with Statistical Process Control (SPC)**
 - **Differences of the “constellations” was reduced in order to improve their interoperability**
 - **CMMI for Development (CMMI-DEV)**
 - **CMMI for Acquisition (CMMI-ACQ)**
 - **CMMI for Services (CMMI-SVC)**
 - **There are 16 core process areas that are common to all three**



Summary of Changes

- **Changes in the CMMI Version 1.3 can be categorized in to the following types:**
 - **New topics and methods were incorporated in the models (AGILE)**
 - **Adjustments were made for better understanding**



Changes to High Maturity Process Areas

- With the use of statistical methods in recent years, the “High Maturity” topics are now written more clearly
- The description of “High Maturity” maturity levels was simplified
- Generic goals (GG) and generic practices (GP) of capability Level 4 and 5 were removed
- The Process area, Organizational Innovation and Deployment (OID) was rewritten and renamed to “Organizational Performance Management“
- A new goal requiring clear linkage between business objectives and process performance goals has been added to the OPM process area



Changes to Better Improve Interoperability of the Constellations

- The core process areas (Core Process Areas) were placed in the same category in all Constellations:
 - Project Management
 - Support
 - Process Management
 - As a result, the CMMI-DEV process area "Requirements Management" was moved to the category "Project Management"
- The inconsistencies in the glossary were removed. Now the glossary terms are the same in all Constellations.
- The Generic Practices (GP) were consolidated into one place in CMMI. GPs are now all grouped under the respective generic practice
- Similar to the CMMI-ACQ and CMMI-SVC, the Integrated Project Management (IPPD) SG was removed in CMMI-DEV (Page 15)
- Two new practices were added to Integrated Project Management.



Incorporation of New Topics and Methods

- Practices in the Engineering process areas have been refined to reflect industry best practices
- Added guidance for organizations that use AGILE methods
- AGILE methods were added as examples in CMMI for Development



Changes to “Adjustments for Better Understanding”

- In addition to these major changes, many minor changes were made to simplify the models and to improve clarity. Examples of these changes are:
 - The description of the generic practice (GP) 3.2 was improved to better describe the aspect of continuous improvement (Page 4)
 - The term "typical work product" was replaced by “Example Work Product” to make clear that these are examples
 - In the process area "Measurement and Analysis” (MA), a table with examples was added
 - In the CMMI for Services, the term "project" was replaced with the word "work“. So, CMMI-SVC no longer talks of "Project Planning", but of "Work Planning.”
 - This was done to make the work planning practices more understandable for service teams



Changes to “Adjustments for Better Understanding”

- Examples of these changes are:
 - A subpractice was added to Integrated Project Management (IPM)
 - SP 2.3 Perform Root Cause Analysis
 - “Perform *root cause analysis of selected issues to address deficiencies in achieving the project’s quality and process performance objectives.*”
 - Purpose is to show that a root cause analysis is useful even without statistical methods (Page 31)
 - SP 1.6 Establish Teams
 - “Establish and maintain teams.”



Changes to Training

- **Revision of Related Trainings Offered by the SEI**
- **In the coming months, training for appraisers, team members and other training courses will be upgraded**
- **This will also include Version 1.3 of the SCAMPI appraisal method**
- **Upgrade trainings for CMMI Version 1.3 is available and required for Appraisal Team Members (ATMs)**



References

<http://www.sei.cmu.edu/cmami/index.cfm>

<http://www.sei.cmu.edu/cmami/tools/dev/index.cfm>

