

KPA Summary of the Evolution of the SEI's Software CMM®

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The following tables summarize the general changes at the key process area (KPA) level between different iterations of the “CMM” as it evolved from a software process maturity framework in 1987 to 1993’s Software CMM v1.1.

The Evolution of Maturity Level 2

1987 – Framework	1988 – SCE	1989 – <i>Managing the Software Process</i>	1990 – CMM v0.2	1991 – CMM v0.6	1991 – CMM v1.0	1993 – CMM v1.1
Change Control of Requirements				Software Requirements Management	Requirements Management	Requirements Management
Project Management	Project Planning	The Project Plan	Project Planning	Software Project Planning	Software Project Planning	Software Project Planning
Management Oversight	Project Management	Managing Software Organizations	Project Management	Software Project Tracking & Oversight	Software Project Tracking & Oversight	Software Project Tracking & Oversight
			Software Subcontract Management	Software Subcontract Management	Software Subcontract Management	Software Subcontract Management
Product Assurance	Software Quality Assurance	Software Quality Assurance	Software Quality Assurance	Software Quality Assurance	Software Quality Assurance	Software Quality Assurance
	Change Control	Software Configuration Management I (code)	Software Configuration Management	Software Configuration Management	Software Configuration Management	Software Configuration Management

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The Evolution of Maturity Level 3

1987 – Framework	1988 – SCE	1989 – <i>Managing the Software Process</i>	1990 – CMM v0.2	1991 – CMM v0.6	1991 – CMM v1.0	1991 – CMM v1.1
Process Group	Process Groups	The Software Engineering Process Group	Organizational Process Focus	Organizational Process Focus	Organization Process Focus	Organization Process Focus
Process Architecture	Standards	Defining the Software Process		Organizational Process Definition	Organization Process Definition	Organization Process Definition
		Software Standards				
	Training	<i>addressed in the individual chapters</i>	Training Program	Training Program	Training Program	Training Program
				Software Project Management	Integrated Software Management	Integrated Software Management
Software Engineering Methods	<i>covered by Standards</i>		Software Requirements Analysis	Software Product Engineering	Software Product Engineering	Software Product Engineering
	Testing	Software Testing	Software Design Software Testing			
		Software Configuration Management II	<i>covered by individual key practices and SCM at Level 2</i>			
			Software Engineering Interfaces	Technical Team Coordination	Intergroup Coordination	Intergroup Coordination
	Reviews	Software Inspections	Peer Reviews	Peer Reviews	Peer Reviews	Peer Reviews

The Evolution of Maturity Level 4

1987 – Framework	1988 – SCE	1989 – <i>Managing the Software Process</i>	1990 – CMM v0.2	1991 – CMM v0.6	1991 – CMM v1.0	1991 – CMM v1.1
Process Measurement	Process Measurement	Data Gathering and Analysis	Process Measurement and Analysis	Process Measurement and Analysis	Process Measurement and Analysis	Quantitative Process Management
Process Database						
Process Analysis	Process Analysis					
Product Quality	Quantitative Quality Plans	Managing Software Quality	Quality Management	Quality Management	Quality Management	Software Quality Management

The Evolution of Maturity Level 5

1987 – Framework	1988 – SCE	1989 – <i>Managing the Software Process</i>	1990 – CMM v0.2	1991 – CMM v0.6	1991 – CMM v1.0	1991 – CMM v1.1
Process Optimization	Problem Analysis Problem Prevention	Defect Prevention	Defect Prevention	Defect Prevention	Defect Prevention	Defect Prevention
Automated Support	Changing Technology	Automating the Software Process	Process Improvement	Technology Management	Technology Innovation	Technology Change Management
				Process Change Management	Process Change Management	Process Change Management
		Contracting for Software	<i>not covered</i>			