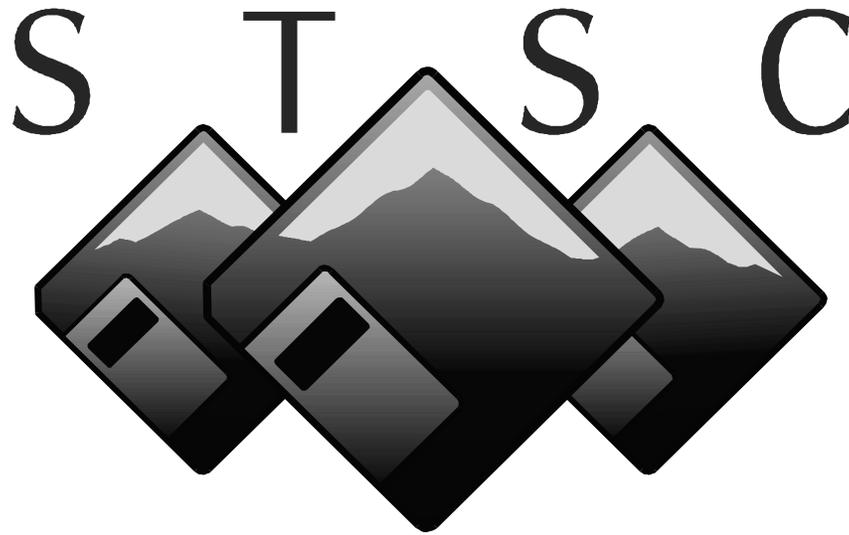


CMMI-SE/SW/IPPD/SS Staged V.1.1 to SW-CMM V.1.1



Mapping

This mapping was performed by the
USAF Software Technology Support Center (STSC)

For all your Software Process Improvement (SPI) needs call the
STSC SPI Help Desk COM 801.777.9712, DSN 777.9712

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INTRODUCTION

The release of any new or revised Capability Maturity Model has always been accompanied with the questions “What does this mean to me?” and “How does this compare to what I am already doing with regard to an existing model?” The following mappings of the Capability Maturity Model for Software/Integrated Product and Process Development/Supplier Section (SW-CMM/IPPD/SS) Version 1.1 Staged Representation to and from the Capability Maturity Model for Software (SW-CMM) Version 1.1 is the best effort of the Software Technology Support Center to help you answer these questions.

The mappings were completed by the United States Air Force’s Software Technology Support Center (STSC). The authors had no involvement with the development of the CMMI-SE/SW/IPPD/SS; hence they had no preconceived notion of the intended mapping by the CMMI-SE/SW development team. These mappings are based on the author’s understanding of the SW-CMM/IPPD/SS Version 1.1 and the SW-CMM Version 1.1

The authors did their best not to “stretch” to show a mapping between the CMMs. On the other hand, there may have been times when a mapping could have been shown but was not

A few notable items. The phrase “...according to a documented procedure” so prevalent in the SW-CMM is absent in the CMMI-SE/SW/IPPD/SS. The CMMI-SE/SW/IPPD/SS places greater emphasis on “established and maintained” whereas the SW-CMM often only states “established.”

Both the continuous and staged versions of CMMI-SE/SW/IPPD/SS Version 1.1 are available in .pdf format on the SEI web site (links current as of 8 July 2003):

Continuous:

<http://www.sei.cmu.edu/publications/documents/02.reports/02tr011.html>

Staged:

<http://www.sei.cmu.edu/publications/documents/02.reports/02tr012.html>

The Capability Maturity Model for Software (SW-CMM) Version 1.1 is also available on the SEI web site as CMU/SEI-93-TR-024 and CMU/SEI-93-TR-025.

<http://www.sei.cmu.edu/publications/documents/93.reports/93.tr.024.html>

<http://www.sei.cmu.edu/publications/documents/93.reports/93.tr.025.html>

SW-CMM KEY PROCESS AREAS

ALPHABETICAL BY ABBREVIATION

DP - Defect Prevention
IC - Intergroup Coordination
ISM - Integrated Software Management
OPD - Organizational Process Definition
OPF - Organizational Process Focus
PCM - Process Change Management
PR - Peer Reviews
QPM - Quantitative Process Management
RM - Requirements Management
SCM - Software Configuration Management
SPE - Software Product Engineering
SPP - Software Project Planning
SPT&O - Software Project Tracking and Oversight
SQA - Software Quality Assurance
SQM - Software Quality Management
SSM - Software Subcontract Management
TCM - Technology Change Management
TP - Training Program

ORDER OF OCCURRENCE BY MATURITY LEVEL

Level 2

RM - Requirements Management
SPP - Software Project Planning
SPT&O - Software Project Tracking and Oversight
SSM - Software Subcontract Management
SQA - Software Quality Assurance
SCM - Software Configuration Management

Level 3

OPF - Organizational Process Focus
OPD - Organizational Process Definition
TP - Training Program
ISM - Integrated Software Management
SPE - Software Product Engineering
IC - Intergroup Coordination
PR - Peer Reviews

Level 4

QPM - Quantitative Process Management
SQM - Software Quality Management

Level 5

DP - Defect Prevention
TCM - Technology Change Management
PCM - Process Change Management

CMMI-SE/SW/IPP/SS SPECIFIC PRACTICES

ALPHABETICAL BY ABBREVIATION

- CAR - Causal Analysis and Resolution
- CM - Configuration Management
- DAR - Decision Analysis and Resolution
- IPM - Integrated Product Management
- ISM - Integrated Supplier Management
- M&A - Measurement and Analysis
- OID - Organizational Innovation and Deployment
- OPD - Organizational Process Definition
- OPF - Organizational Process Focus
- OPP - Organizational Process Performance
- OT - Organizational Training
- PI - Product Integration
- PMC - Product Monitoring and Control
- PP - Project Planning
- PPQA - Process and Product Quality Assurance
- QPM - Quantitative Project Management
- RD - Requirements Development
- RM - Requirements Management
- RSKM - Risk Management
- SAM - Supplier Agreement Management
- TS - Technical Solution
- VAL - Validation
- VER - Verification

- GP - Generic Practice The generic practices are similar to the common features of Commitment to Perform, Ability to Perform, Measurement and Analysis, and Verifying Implementation found in SW-CMM V. 1.1

ALPHABETICAL BY MATURITY LEVEL

(Staged Representation)

<u>Level 2</u>	<u>Level 3</u>	<u>Level 4</u>	<u>Level 5</u>
CM	DAR	OPP	CAR
M&A	IPM	QPM	OID
PMC	ISM		
PP	OPD		
PPQA	OPF		
RM	OT		
SAM	PI		
	RD		
	RSKM		
	TS		
	VAL		
	VER		

ALPHABETICAL BY PROCESS AREA CATEGORY

(Continuous Representation)

<u>Process Management</u>	<u>Project Management</u>	<u>Engineering</u>	<u>Support</u>
OID	IPM	PI	CAR
OPD	ISM	RD	CM
OPF	PMC	RM	DAR
OPP	PP	TS	M&A
OT	QPM	VAL	PPQA
	RSKM	VER	
	SAM		

HOW TO READ THE MAPS

MAPPING OF CMMI-SE/SW/IPP/SS V 1.1 Staged Representation TO SW-CMM V 1.1 (Section A of the mapping)

The first column identifies the process area category.

The second column identifies the CMMI process area.

The third column lists the CMMI process area goal

The fourth column lists the CMMI specific practice associated with the goal or the generic practices for the maturity level.

The fifth column provides the associated SW-CMM key process area goal or common feature. See the SW-CMM Key Process Areas section for the abbreviations used. Additional abbreviations for the common features are:

Co - Commitment to perform
Ab - Ability to perform
Ac - Activities performed
Meas - Measurements
Ver - Verification

For example, a notation of SPP Ac 1,4 refers to the Software Project Planning key process area, activities 1 and 4.

The sixth column provides our evaluation of how the two CMMs compare.

S = Strong correlation
M = Medium correlation
W = Weak correlation
N = Not directly addressed

The seventh column includes comments regarding the strength evaluation in column 6.

The eighth column is a shortened notation of the CMMi area being evaluated.

**MAPPING OF SW-CMM V 1.1 TO CMMI-
SE/SW/IPPD/SS V 1.1 Staged Representation**
(Section B of the mapping)

The first column identifies the maturity level.

The second column identifies the SW-CMM key process area.

The third column is a header column for the goals and common features.

The fourth column lists the goals and common features of the key process area.

The fifth column provides the mapping to CMMI-SE/SW/IPPD/SS. For example, a notation of SAM G2 SP1,2 refers to the Supplier Agreement Management process area, goal 2, and specific practices 1 and 2. See the CMMI-SE/SW Specific Practices section for the abbreviations used.

Blanks in the fifth column indicate that no mapping was apparent.

The sixth column provides our evaluation of how the two CMMs compare. No notation indicates equivalence.

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference	
Maturity Level 2								
	Requirements Management	SG 1	Requirements are managed and inconsistencies with project plans and work products are identified.	RM Goal 1	S		RM SG1	
					RM Goal 2	S		RM SG1
				SP 1.1 Develop an understanding with the requirements providers on the meaning of the requirements.	IC Ac 1	S		RM SP 1.1
					SPE Ac 2	M	See subpractice 10	RM SP 1.1
				SP 1.2 Obtain commitment to the requirements from the project participants.	IC Goal 1	S		RM SP 1.2
					RM Ac 1	S		RM SP 1.2
					SPE Ac 2	M		RM SP 1.2
				SP 1.3 Manage changes to the requirements as they evolve during the project.	RM Ac 3	S		RM SP 1.3
					SCM Ac 5	S		RM SP 1.3
					SPE Ac 2	W		RM SP 1.3
					SPE Ac10	W		RM SP 1.3
				SP 1.4 Maintain bi-directional traceability among the requirements and the project plans and work products.	SPE Ac 10	S	Sub-practices 2& 3 elevated to Specific Practice	RM SP 1.4
				SP 1.5 Identify inconsistencies between the project plans and work products and the requirements.	RM Ac 3	M	Sub-practices 2 elevated to Specific Practice	RM SP 1.5
			SPE Ac 10		S		RM SP 1.5	
			GG 2	The process is institutionalized as a managed process.			Implied by Level 2	RM GG 2
				GP 2.1 Establish and maintain an organizational policy for planning and performing the requirements management process	RM Co 1	S		RM GP 2.1
				GP 2.2 Establish and maintain the plan for performing the requirements management process.		N	Not Directly addressed	RM GP 2.2
				GP 2.3 Provide adequate resources for performing the requirements management process, developing the work products, and providing the services of the process.	RM Ab 3	S		RM GP 2.3
				GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the requirements management process	RM Ab 1	S		RM GP 2.4
				GP 2.5 Train the people performing or supporting the requirements management process as needed.	RM Ab 4	S		RM GP 2.5
				GP 2.6 Place designated work products of the requirements management process under appropriate levels of configuration management.	RM Ac 2	S	Subpractice 1	RM GP 2.6
		SCM Goal 2			W		RM GP 2.6	
		GP 2.7 Identify and involve the relevant stakeholders of the requirements management process as planned.			N	Not Directly addressed (See GP 2.2 above)	RM GP 2.7	
		GP 2.8 Monitor and control the requirements management process against the plan for performing the process and take appropriate corrective action.			N	Not Directly addressed (See GP 2.2 above)	RM GP 2.8	

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 2 (cont.) RM Req for Level 3	Requirements Management (cont.)	GG 2 (cont.)	GP 2.9 Objectively evaluate adherence of the requirements management process against its process description, standards, and procedures, and address noncompliance.	RM Ve 3	S		RM GP 2.9
			GP 2.10 Review the activities, status, and results of the requirements management process with higher level management and resolve issues.	RM Ve 1	S		RM GP 2.9
		GG 3	GP 3.1 Establish and maintain the description of a defined requirements management process.	OPD Ac 1	W		RM GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the requirements management process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		RM GP 3.2
Maturity Level 2 (cont.)	Project Planning	SG 1	Estimates of project planning parameters are established and maintained.	SPP Goal 1	S		PP SG1
			SP 1.1 Establish a top-level work breakdown structure (WBS) to estimate the scope of the project.	SPP Ac 7	W	Subpractice 4	PP SP 1.1
		SPP Ac 9		W	Subpractice 2	PP SP 1.1	
		SP 1.2 Establish and maintain estimates of the attributes of the work products and tasks.		SPP Ac 9	S		PP SP 1.2
		SPP Ac 10		S		PP SP 1.2	
		SP 1.3 Define the project life-cycle phases upon which to scope the planning effort.		SPP Ac 5	S		PP SP 1.3
		SPP Ac 7		W	Subpractice 2	PP SP 1.3	
		SP 1.4 Estimate the project effort and cost for the attributes of the work products and tasks based on estimation rationale.	SPP Ac 10	S		PP SP 1.4	
			SPP Ac 14	W		PP SP 1.4	
			SG 2 A project plan is established and maintained as the basis for managing the project.	SPP Goal 2	S		PP SG 2
		SPP Ac 6		S		PP SG 2	
		SPP Ac 7		S		PP SG 2	
		SP 2.1 Establish and maintain the project's budget and schedule.	SPP Ac 7	S	Subpractices 6,8	PP SP 2.1	
			SPP Ac 12	S		PP SP 2.1	
			SP 2.2 Identify and analyze project risks.	SPP Ac 7	W	Subpractice 9	PP SP 2.2
				SPP Ac 13	S		PP SP 2.2
			SP 2.3 Plan for the management of project data.	ISM Ac 4	W	Subpractice 1	PP SP 2.3
				OPD Ac 5	W		PP SP 2.3
				OPD Ac 6	W		PP SP 2.3
				QPM Ac 1	W		PP SP 2.3
				QPM Ac 2	W		PP SP 2.3
				SP 2.3 Cont	QPM Ac 3	W	
			SPP Ac 7		W		PP SP 2.3
SPP Ac 8	W				PP SP 2.3		
SPT&O Ac 5	W		by implication		PP SP 2.3		
SPT&O Ac 6	W		by implication		PP SP 2.3		
SPT&O Ac 7	W	by implication	PP SP 2.3				
SPT&O Ac 8	W	by implication	PP SP 2.3				
SPT&O Ac 9	W	by implication	PP SP 2.3				
SPT&O Ac 10	W	by implication	PP SP 2.3				
SPT&O Ac 11	W	by implication	PP SP 2.3				

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 2 (cont.)	Project Planning (cont.)	SG 2 (cont.)	SP 2.4 Plan for necessary resources to perform the project.	SPE Ab 1	W		PP SP 2.4
				SPP Ac 7	W		PP SP 2.4
				SPP Ac 11	S		PP SP 2.4
				SPP Ac 14	S		PP SP 2.4
			SP 2.5 Plan for knowledge and skills needed to perform the project.	ISM Ac 4	W	Subpractices 7,8	PP SP 2.5
				SPP Ac 7	W		PP SP 2.5
				TP Ac 1	S		PP SP 2.5
			SP 2.6 Plan the involvement of identified stakeholders.	SPP Ac 1	W		PP SP 2.6
				SPP Ac 3	W		PP SP 2.6
				SPP Ac 6	S		PP SP 2.6
				SPT&O Ab 1	W		PP SP 2.6
			SP 2.7 Establish and maintain the overall project plan content.	ISM Ac 3	W		PP SP 2.7
				SPP Ac 6	S		PP SP 2.7
				SPP Ac 7	S		PP SP 2.7
				SPT&O Ac 2	W		PP SP 2.7
		SG 3	Commitments to the project plan are established and maintained.	SPP Goal 2	S		PP SG 3
				SPP Goal 3	S		PP SG 3
				SP 3.1 Review all plans that affect the project to understand project commitments.	DP Ac 1	S	Informational materials in each usually direct review by the project.
		PCM Ac 3	W		ditto	PP SP 3.1	
		QPM Ac 1	S		ditto	PP SP 3.1	
		QPM Ac 2	S		ditto	PP SP 3.1	
		SCM Ac 1	S		ditto	PP SP 3.1	
		SCM Ac 2	S		ditto	PP SP 3.1	
		SPP Ac 3	S		ditto	PP SP 3.1	
		SPP Ac 4	S		ditto	PP SP 3.1	
		SPP Ac 6	S		ditto	PP SP 3.1	
		SQA Ac 1	S		ditto	PP SP 3.1	
		SQA Ac 2	S		ditto	PP SP 3.1	
		SQM Ac 1	S		ditto	PP SP 3.1	
		SQM Ac 2	S		ditto	PP SP 3.1	
SSM Ac 1	W	ditto	PP SP 3.1				
TCM Ac 1	W	ditto	PP SP 3.1				
TP Ac 1	W	ditto	PP SP 3.1				

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 2 (cont.)	Project Planning (cont.)	SG 3 (cont.)	SP 3.2 Reconcile the project plan to reflect available and estimated resources.	SPP Ac 1	W	Not directly addressed	PP SP 3.2
				SPP Ac 4	W		PP SP 3.2
				SPP Ac 6	W		PP SP 3.2
				SPP Ac 12	W	Subpractice 3	PP SP 3.2
			SPP Ac 14	W		PP SP 3.2	
			SP 3.3 Obtain commitment from relevant stakeholders responsible for performing and supporting plan execution.	IC Ac 3	S		PP SP 3.3
				IC Ac4	S		PP SP 3.3
				IC Ac 6	S		PP SP 3.3
		SPP Ac 6		S		PP SP 3.3	
		GG 2	The process is institutionalized as a managed process.		N	Implied by Level 2	PP GG 2
		GP 2.1 Establish and maintain an organizational policy for planning and performing the project planning process	SPP Co 2	S		PP GP 2.1	
			GP 2.2 Establish and maintain the plan for performing the project planning process.		N	SW-CMM v1.1 doesn't specify a project planning plan	PP GP 2.2
			GP 2.3 Provide adequate resources for performing the project planning process, developing the work products, and providing the services of the process.	SPP Ab 3	S		PP GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the project	SPP Ab 2	S		PP GP 2.4
				SPP Co 1	S		PP GP 2.4
			GP 2.5 Train the people performing or supporting the project planning process as needed.	SPP Ab 4	S		PP GP 2.5
			GP 2.6 Place designated work products of the project planning process under appropriate levels of configuration management.	SCM Goal 2	W		PP GP 2.6
				SPP Ac 15	S		PP GP 2.6
GP 2.7 Identify and involve the relevant stakeholders of the project planning process as planned.			N	See GP 2.2	PP GP 2.7		
GP 2.8 Monitor and control the project planning process against the plan for performing the process and take appropriate corrective action.		N	See GP 2.2	PP GP 2.8			
GP 2.9 Objectively evaluate adherence of the project planning process against its process description, standards, and procedures, and address noncompliance.	SPP Ve 3	S		PP GP 2.9			
GP 2.10 Review the activities, status, and results of the project planning process with higher level management and resolve issues.	SPP Ve 1	S		PP GP 2.10			
PP Req for Level 3	GG 3	GP 3.1 Establish and maintain the description of a defined project planning process.	OPD Ac 1	W		PP GP 3.1	
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the project planning process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		PP GP 3.2
Maturity Level 2 (cont.)	Project Monitoring and Control	SG 1	Actual performance and progress of the project is monitored against the project plan.	SPT&O Goal 1	S		PMC SG 1
			SP 1.1 Monitor the actual values of the project planning parameters against	SPT&O Ac 1	S		PMC SP 1.1

Mapping of CMMI-SE/SW/IPP/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference			
			the project plan.	SPT&O Ac 5	S		PMC SP 1.1			
				SPT&O Ac 6	S		PMC SP 1.1			
				SPT&O Ac 7	S		PMC SP 1.1			
				SPT&O Ac 8	S		PMC SP 1.1			
				SPT&O Ac 9	S		PMC SP 1.1			
			SP 1.2 Monitor commitments against those identified in the project plan.	SPT&O Ac 1	W		PMC SP 1.2			
				SPT&O Ac 8	M		PMC SP 1.2			
				SPT&O Ac 12	W		PMC SP 1.2			
				SPT&O Ac 13	M		PMC SP 1.2			
			SP 1.3 Monitor risks against those identified in the project plan.	ISM Ac 10	S		PMC SP 1.3			
				SPT&O Ac 10	S		PMC SP 1.3			
			SP 1.4 Monitor the management of project data against the project plan.	SPT&O Ac 11	W		PMC SP 1.4			
				SPT&O Ve 3	W		PMC SP 1.4			
			SP 1.5 Monitor stakeholder involvement against the project plan.	ISM Ac 9	W		PMC SP 1.5			
				ISM Ac 11	W		PMC SP 1.5			
				SPT&O Ac 12	W		PMC SP 1.5			
				SPT&O Ac 13	S		PMC SP 1.5			
			SP 1.6 Periodically review the project's progress, performance, and issues.	ISM Ac 11	S		PMC SP 1.6			
				SPT&O Ac 4	W		PMC SP 1.6			
				SPT&O Ac 6	S		PMC SP 1.6			
				SPT&O Ac 8	S		PMC SP 1.6			
				SPT&O Ac 9	S		PMC SP 1.6			
				SPT&O Ac 12	S		PMC SP 1.6			
				SPT&O Ac 13	S		PMC SP 1.6			
			SP 1.7 Review the accomplishments and results of the project at selected project milestones.	SPT&O Ac 12	S		PMC SP 1.7			
				SPT&O Ac 13	S		PMC SP 1.7			
			SG 2 Corrective actions are managed to closure when the project's performance or results deviate significantly from the plan.	SPT&O Goal 2	S		SW CMM more rigorous	PMC SG 2		
						SP 2.1 Collect and analyze the issues and determine the corrective actions necessary to address the issues.	SPT&O Ac 5	S		PMC SP 2.1
							SPT&O Ac 6	S		PMC SP 2.1
						SP 2.1 Cont.	SPT&O Ac 7	S		PMC SP 2.1
	SPT&O Ac 8	S					PMC SP 2.1			
	SPT&O Ac 9	S					PMC SP 2.1			
SP 2.2 Take corrective action on identified issues.	SPT&O Ac 5	S					PMC SP 2.2			
	SPT&O Ac 6	S					PMC SP 2.2			
	SPT&O Ac 7	S					PMC SP 2.2			
	SPT&O Ac 8	S					PMC SP 2.2			
	SPT&O Ac 9	S					PMC SP 2.2			
Maturity Level 2 (cont.)	Project Monitoring and Control (cont.)	SG 2 (cont.)	SP 2.3 Manage corrective actions to closure.	SPT&O Ac 9	S	"To closure" not mentioned in Ac 5-8	PMC SP 2.3			
		GG 2	The process is institutionalized as a managed process.		N	Implied by Level 2	PMC GG 2			

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
			GP 2.1 Establish and maintain an organizational policy for planning and performing the project monitoring and control process	SPT&O Co 2	M	CMM doesn't address planning the SPT&O Process	PMC GP 2.1
			GP 2.2 Establish and maintain the plan for performing the project monitoring and control process.		N	SW-CMM v1.1 doesn't directly address a plan for performing the SPT&O process.	PMC GP 2.2
			GP 2.3 Provide adequate resources for performing the project monitoring and control process, developing the work products, and providing the services of the process.	SPT&O Ab 3	S		PMC GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the project monitoring and control process.	SPT&O Ab 2	S		PMC GP 2.4
				SPT&O Co 1	S		PMC GP 2.4
			GP 2.5 Train the people performing or supporting the project monitoring and control process as needed.	SPT&O Ab 4	S		PMC GP 2.5
			GP 2.6 Place designated work products of the project monitoring and control process under appropriate levels of configuration management.	SCM Goal 2	W		PMC GP 2.6
				SPT&O Ac 2	S	Subpractice 4	PMC GP 2.6
				SPT&O Ac 11	S	Subpractice 2	PMC GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the project monitoring and control process as planned.	ISM Ac 9	W		PMC GP 2.7
				ISM Ac 11	W		PMC GP 2.7
				SPT&O Ac 12	S		PMC GP 2.7
				SPT&O Ac 13	S		PMC GP 2.7
			GP 2.8 Monitor and control the project monitoring and control process against the plan for performing the process and take appropriate corrective action.		N	SW-CMM v1.1 doesn't directly address a plan for performing the SPT&O process.	PMC GP 2.8
			GP 2.9 Objectively evaluate adherence of the project monitoring and control process against its process description, standards, and procedures, and address noncompliance.	SPT&O Ve 3	S		PMC GP 2.9
			GP 2.10 Review the activities, status, and results of the project monitoring and control process with higher level management and resolve issues.	SPT&O Ve 1	S		PMC GP 2.10

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
PMC Req for Level 3	Project Monitoring and Control (cont.)	GG 3	GP 3.1 Establish and maintain the description of a defined project Monitoring and control process.	OPD Ac 1	W		PMC GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the project monitoring and control process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		PMC GP 3.2
Maturity Level 2 (cont.)	Supplier Agreement Management	SG 1	Agreements with the suppliers are established and maintained.	SSM Goal 2	S		SAM SG 1
				SSM Goal 3	W		SAM SG 1
		SP 1.1 Determine the type of acquisition for each product or product component to be acquired.		N	Not addressed	SAM SP 1.1	
			SP 1.2 Select suppliers based on an evaluation of their ability to meet the specified requirements and established criteria.	SSM Ac 2	S	SAM SP 1.2	
				SSM Goal 1	S	SAM SP 1.2	
		SP 1.3 Establish and maintain formal agreements with the supplier.	SSM Ac 3	S	SAM SP 1.3		
			SSM Ac 6	W	SAM SP 1.3		
		SG 2	Agreements with the suppliers are satisfied by both the project and the supplier.	SSM Ac 3	S	SAM SG 2	
				SSM Ac 7	S	Subpractices 5,6 SAM SG 2	
				SSM Ac 8	S	SAM SG 2	
		SP 2.1 Review candidate COTS products to ensure they satisfy the specified requirements that are covered under a supplier agreement.		N	Not directly addressed	SAM SP 2.1	
			SP 2.2 Perform activities with the supplier as specified in the supplier agreement.	SSM AC 3	S	SAM SP 2.2	
				SSM AC 7	S	SAM SP 2.2	
				SSM AC 8	S	SAM SP 2.2	
				SSM AC 9	S	SAM SP 2.2	
				SSM AC 13	S	SAM SP 2.2	
			SP 2.3 Ensure that the supplier agreement is satisfied before accepting the acquired product.	SSM Ac 12	S	SAM SP 2.3	
		SP 2.4 Transition the acquired products from the supplier to the project.		N	Not addressed	SAM SP 2.4	
		GG 2	The process is institutionalized as a managed process.		N	Implied by Level 2	SAM GG 2
		Maturity Level 2 (cont.)	Supplier Agreement Management (cont.)	GG 2 (cont.)	GP 2.1 Establish and maintain an organizational policy for planning and performing the supplier agreement management process.	SSM Co 1	M
GP 2.2 Establish and maintain the plan for performing the supplier agreement management process.					N	SW-CMM v1.1 doesn't specify a plan for performing the SSM process	SAM GP 2.2
GP 2.3 Provide adequate resources for performing the supplier agreement management process, developing the work products, and providing the services of the process.	SSM Ab 1				M		SAM GP 2.3
Maturity Level 2 (cont.)	Supplier Agreement Management (cont.)	GG 2 (cont.)	GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the supplier agreement management process	SSM Co 2	S		SAM GP 2.4

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference
			GP 2.5 Train the people performing or supporting the supplier agreement management process as needed.	SSM Ab 2	S		SAM GP 2.5
				SSM Ab 3	S		SAM GP 2.5
			GP 2.6 Place designated work products of the supplier agreement management process under appropriate levels of configuration management.	SCM Goal 2	W		SAM GP 2.6
				SSM Ac 1	W	Subpractice 3	SAM GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the supplier agreement management process as planned.	SSM Ac 1	W		SAM GP 2.7
				SSM Ac 3	W		SAM GP 2.7
				SSM Ac 7	S		SAM GP 2.7
				SSM Ac 8	S		SAM GP 2.7
				SSM Ac 9	S		SAM GP 2.7
				GP 2.8 Monitor and control the supplier agreement management process against the plan for performing the process and take appropriate corrective action.	SSM Me 1	S	
	GP 2.9 Objectively evaluate adherence of the supplier agreement management process against its process description, standards, and procedures, and address noncompliance.	SSM Ve 3	S		SAM GP 2.9		
	GP 2.10 Review the activities, status, and results of the supplier agreement management process with higher level management and resolve issues.	SSM Ve 1	S		SAM GP 2.10		
SAM Req for Level 3		GG 3	GP 3.1 Establish and maintain the description of a defined supplier agreement management process.	OPD Ac 1	W		SAM GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the supplier agreement management process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		SAM GP 3.2
	Measurement and Analysis	SG 1	Measurement objectives and activities are aligned with identified information needs and objectives.		N	Not directly addressed	MA SG 1
			SP 1.1 Establish and maintain measurement objectives that are derived from identified information needs and objectives.	QPM Co 2	W	SW CMM less rigorous	MA SP 1.1
				QPM Ac 1	S		MA SP 1.1
				SPT&O Ac 5	W	implied	MA SP 1.1
				SPT&O Ac 6	W	implied	MA SP 1.1
				SPT&O Ac 7	W	implied	MA SP 1.1
				SPT&O Ac 8	W	implied	MA SP 1.1
				SPT&O Ac 9	W	implied	MA SP 1.1
			SPT&O Ac 11	W	implied	MA SP 1.1	
SP 1.2 Specify measures to address the measurement objectives.	QPM Ac 4	S		MA SP 1.2			

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference	
Maturity Level 2 (cont.)	Measurement and Analysis (cont.)	SG 1 (cont.)	SP 1.3 Specify how measurement data will be obtained and stored.	QPM Ac 3	S		MA SP 1.3	
				QPM Ac 4	W	Subpractices 6,9	MA SP 1.3	
				QPM Ac 5	W	Subpractice 2	MA SP 1.3	
			SP 1.4 Specify how measurement data will be analyzed and reported.	QPM Ac 3	W		MA SP 1.4	
				QPM Ac 5	W	Subpractice 2	MA SP 1.4	
				QPM Ac 6	W		MA SP 1.4	
		SPT&O Ac 11		W		MA SP 1.4		
		SG 2	Measurement results that address identified information needs and objectives are provided.	TCM Ab 4	W		MA SG 2	
			SP 2.1 Obtain specified measurement data.	QPM Ac 4	S	Subpractices 2,9	MA SP 2.1	
			SP 2.2 Analyze and interpret measurement data.	QPM Ac 5	S	Subpractice 2	MA SP 2.2	
			SP 2.3 Manage and store measurement data, measurement specifications, and analysis results.	OPD Ac 5	S		MA SP 2.3	
				QPM Ac 4	W	Subpractice 9	MA SP 2.3	
			SPT&O Ac 11	S		MA SP 2.3		
		SP 2.4 Report results of measurement and analysis activities to all relevant stakeholders.	QPM Ac 6	S		MA SP 2.4		
		GG 2	The process is institutionalized as a managed process.		N	Implied by Level 2	MA GG 2	
			GP 2.1 Establish and maintain an organizational policy for planning and performing the measurement and analysis process.	QPM Co 1	W	Not directly addressed	MA GP 2.1	
				GP 2.2 Establish and maintain the plan for performing the measurement and analysis process.	QPM Ac 1	W	Not directly addressed	MA GP 2.2
					SQM Ac 1	W		MA GP 2.2
					SQM Ac 2	W		MA GP 2.2
				GP 2.3 Provide adequate resources for performing the measurement and analysis process, developing the work products, and providing the services of the process.	QPM Ab2	W	Not directly addressed	MA GP 2.3
					QPM Ab 3	W		MA GP 2.3
				GP 2.3 Cont.	SQM Ab 1	W		MA GP 2.3
				GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the measurement and analysis process		N	Not directly addressed	MA GP 2.4
				GP 2.5 Train the people performing or supporting the measurement and analysis process as needed.	QPM Ab 4	W	Not directly addressed	MA GP 2.5
					SQM Ab 2	W		MA GP 2.5
					SQM Ab 3	W		MA GP 2.5
				GP 2.6 Place designated work products of the measurement and analysis process under appropriate levels of configuration management.	QPM Ac 1	S	Subpractice 4	MA GP 2.6
					QPM Ac 5	S	Subpractice 9	MA GP 2.6
					SCM Goal 2	W		MA GP 2.6
		SQM Ac 1	S		Subpractice 10	MA GP 2.6		
GP 2.7 Identify and involve the relevant stakeholders of the measurement and analysis process as planned.	QPM Ac 2	S	Subpractice 5	MA GP 2.7				
	QPM Ac 6	S		MA GP 2.7				
GP 2.8 Monitor and control the measurement and analysis process against the plan for performing the process and take appropriate corrective action.		N	Not directly addressed	MA GP 2.8				

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference	
Maturity Level 2 (cont.)	Measurement and Analysis (cont.)	GG 2 (cont.)	GP 2.9 Objectively evaluate adherence of the measurement and analysis process against its process description, standards, and procedures, and address noncompliance.		N	Not directly addressed	MA GP 2.9	
			GP 2.10 Review the activities, status, and results of the measurement and analysis process with higher level management and resolve issues.		N	Not directly addressed	MA GP 2.10	
MA Req for Level 3		GG 3	GP 3.1 Establish and maintain the description of a defined measurement and analysis process.	OPD Ac 1	W		MA GP 3.1	
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the measurement and analysis process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		MA GP 3.2	
Maturity Level 2 (cont.)	Process and Product Quality Assurance	SG 1	Adherence of the performed process and associated work products and services to applicable process descriptions, standards, and procedures is objectively evaluated.	SQA Goal 2	S	CMM v1.1 was often interpreted to call for independent SQA who reported directly to the senior management. In CMMI v1.1 the introductory material for PPQA points out that organizations can have other safeguards besides independence to	PPQA SG 1	
			SP 1.1 Objectively evaluate the designated performed processes against the applicable process descriptions, standards, and procedures.	SPE Me 2	S		PPQA SP 1.1	
				SPE Ve 3	S		PPQA SP 1.1	
				SQA Ac 4	S		PPQA SP 1.1	
			SP 1.2 Objectively evaluate the designated work products and services against the applicable process descriptions, standards, and procedures.	SPE Me 1	S		PPQA SP 1.2	
				SPE Ve 3	S		PPQA SP 1.2	
				SQA Ac 5	S		PPQA SP 1.2	
		SG 2	Noncompliance issues are objectively tracked and communicated, and resolution is ensured.	SQA Goal 4	S		PPQA SG 2	
			SP 2.1 Communicate quality issues and ensure resolution of noncompliance issues with the staff and managers.		SQA Ac 6	S		PPQA SP 2.1
					SQA Ac 7	S		PPQA SP 2.1
					SQA Ac 4	W	Not directly addressed	PPQA SP 2.2
SQA Ac 5	W					PPQA SP 2.2		
	SP 2.2 Establish and maintain records of the quality assurance activities.		SQA Ac 7	W		PPQA SP 2.2		
Maturity Level 2 (cont.)	Process and Product Quality Assurance (cont.)	GG 2	The process is institutionalized as a managed process.		N	Implied by Level 2	PPQA GG 2	

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference		
			GP 2.1 Establish and maintain an organizational policy for planning and performing the process and product quality assurance process. GP 2.2 Establish and maintain the plan for performing the process and product quality assurance process.	SQA Co 1	W		PPQA GP 2.1		
				SQA Ac 1	S	SW-CMM v1.1 doesn't always specify "maintain"	PPQA GP 2.2		
				SQM Ac 1	S		PPQA GP 2.2		
					GP 2.2 Cont.	SQM Ac 2	S		PPQA GP 2.2
					GP 2.3 Provide adequate resources for performing the process and product quality assurance process, developing the work products, and providing the services of the process.	SQA Ab 2	S		PPQA GP 2.3
					GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the process and product quality assurance process	SQA Ab 1	S		PPQA GP 2.4
					GP 2.5 Train the people performing or supporting the process and product quality assurance process as needed.	SQA Ab 3	S		PPQA GP 2.5
					GP 2.6 Place designated work products of the process and product quality assurance process under appropriate levels of configuration management.	SQA Ab 4	S		PPQA GP 2.5
						SCM Goal 2	W		PPQA GP 2.6
					GP 2.7 Identify and involve the relevant stakeholders of the process and product quality assurance process as planned.	SQA Ac 1	S	Subpractice 3	PPQA GP 2.7
						SCM Ac 9	W	"Relevant stakeholder" = "affected groups"	PPQA GP 2.7
						SQA Ac 1	S		PPQA GP 2.7
					GP 2.8 Monitor and control the process and product quality assurance process against the plan for performing the process and take appropriate corrective action.	SQA Me 1	S		PPQA GP 2.8
					GP 2.9 Objectively evaluate adherence of the process and product quality assurance process against its process description, standards, and procedures, and address noncompliance.	SQA Ve 3	S		PPQA GP 2.9
		GP 2.10 Review the activities, status, and results of the process and product quality assurance process with higher level management and resolve issues.	SQA Ve 1	S		PPQA GP 2.10			
PPQA Req for Level 3		GG 3	GP 3.1 Establish and maintain the description of a defined process and product quality process.	OPD Ac 1	W		PPQA GP 3.1		
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the process and product quality process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		PPQA GP 3.2		

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 2 (cont.)	Configuration Management	SG 1	Baselines of identified work products are established.	SCM Goal 2	S		CM SG 1
			SP 1.1 Identify the configuration items, components, and related work products that will be placed under configuration management.	SCM Ac 4	S		CM SP 1.1
			SP 1.2 Establish and maintain a configuration management and change management system for controlling work products.	SCM Ac 3	S		CM SP 1.2
				SCM Ac 5	S		CM SP 1.2
			SP 1.3 Create or release baselines for internal use and for delivery to the customer.	SCM Ac 7	S		CM SP 1.3
		SG 2	Changes to the work products under configuration management are tracked and controlled.	SCM Goal 2	W		CM SG 2
				SCM Goal 3	S		CM SG 2
			SP 2.1 Track change requests for the configuration items.	SCM Ac 5	S		CM SP 2.1
			SP 2.2 Control changes to the configuration items.	SCM Ac 5	W		CM SP 2.2
				SCM Ac 6	S		CM SP 2.2
		SG 3	Integrity of baselines is established and maintained.	SCM Goal 3	S		CM SG 3
			SP 3.1 Establish and maintain records describing configuration items.	SCM Ac 4	S		CM SP 3.1
				SCM Ac 8	S		CM SP 3.1
			SP 3.2 Perform configuration audits to maintain integrity of the configuration baselines.	SCM Ac 10	S		CM SP 3.2
				SCM Ve 3	S		CM SP 3.2
		GG 2	The process is institutionalized as a managed process.		N	Implied by Level 2	CM GG 2
			GP 2.1 Establish and maintain an organizational policy for planning and performing the configuration management process.	SCM Co 1	S	SW-CMM v1.1 doesn't specify "maintain"	CM GP 2.1
			GP 2.2 Establish and maintain the plan for performing the configuration management process.	SCM Ac 1	S	SW-CMM v1.1 doesn't specify "maintain"	CM GP 2.2
				SCM Ac 2	S		CM GP 2.2
			GP 2.3 Provide adequate resources for performing the configuration management process, developing the work products, and providing the services of the process.	SCM Ab 3	S		CM GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the configuration management process	SCM Ab 1	S		CM GP 2.4
				SCM Ab 2	S		CM GP 2.4
			GP 2.5 Train the people performing or supporting the configuration management process as needed.	SCM Ab 4	S		CM GP 2.5
				SCM Ab 5	S		CM GP 2.5
			GP 2.6 Place designated work products of the configuration management process under appropriate levels of configuration management.	SCM Goal 2	W		CM GP 2.6
				SCM Ac 1	S		CM GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the configuration management process as planned.	SCM Ac 1	S		CM GP 2.7
		SCM Ac 2	S		CM GP 2.7		
		SCM Ac 9	S		CM GP 2.7		

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 2 (cont.)	Configuration Management (cont.)	GG 2 (cont.)	GP 2.8 Monitor and control the configuration management process against the plan for performing the process and take appropriate corrective action.	SCM Me 1	S		CM GP 2.8
			GP 2.9 Objectively evaluate adherence of the configuration management process against its process description, standards, and procedures, and address noncompliance.	SCM Ve 4	S		CM GP 2.9
			GP 2.10 Review the activities, status, and results of the configuration management process with higher level management and resolve issues.	SCM Ve 1	S		CM GP 2.10
CM Req for Level 3		GG 3	GP 3.1 Establish and maintain the description of a defined configuration management process.	OPD Ac 1	W		CM GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the configuration management process to support the future use and improvement of the organization' s processes and process assets.	OPD Ac 5	W		CM GP 3.2
Maturity Level 3							
	Requirements Development	SG 1	Stakeholder needs, expectations, constraints, and interfaces are collected and translated into customer requirements.	IC Ac 1	S	SW CMM less rigorous	RD SG 1
				SPE Ac 2	W	weak "collection" wording	RD SG 1
		SP 1.1 Elicit stakeholder needs, expectations, constraints, and interfaces for all phases of the product' s life cycle.	IC Ac 1	S		RD SP 1.1	
			SPE Ac 2	W		RD SP 1.1	
			IC Ac 1	S		RD SP 1.2	
			SPE Ac 2	W		RD SP 1.2	
		SG 2	Customer requirements are refined and elaborated to develop product and product-component requirements.	SPE Ac 2	S		RD SG 2
				SP 2.1 Establish and maintain product and product-component requirements which are based on the customer requirements.	SPE Ac 2	S	
		SP 2.2 Allocate the requirements for each product component.	RM Ab 2	W		RD SP 2.2	
			SPE Ac 3	S		RD SP 2.2	
			SPE Ac 2	S	Subpractice 1	RD SP 2.3	
		SP 2.3 Identify interface requirements.	SPE Ac 3	S	Subpractice 8	RD SP 2.3	
			SG 3	The requirements are analyzed and validated, and a definition of required functionality is developed.	SPE Ac 2	S	
		SP 3.1 Establish and maintain operational concepts and associated scenarios.	SPE Ac 2	W	SW CMM less rigorous	RD SP 3.1	
			SP 3.2 Establish and maintain a definition of required functionality.	SPE Ac 2	S		RD SP 3.2
			SP 3.3 Analyze requirements to ensure that they are necessary and sufficient.	SPE Ac 2	S		RD SP 3.3
SP 3.4 Analyze requirements to balance stakeholder needs and constraints.	SPE Ac 2		S		RD SP 3.4		

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 3 (cont.)	Requirements Development (cont.)	SG 3 (cont.)	SP 3.5 Validate requirements to ensure the resulting product will perform as intended in the user's environment using multiple techniques as appropriate.	SPE Ac 2	S		RD SP 3.5
		GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	RD GG 3
			GP 2.1 Establish and maintain an organizational policy for planning and performing the requirements development process.		N	Not directly addressed	RD GP 2.1
			GP 2.2 Establish and maintain the plan for performing the requirements development process.		N	Not directly addressed	RD GP 2.2
			GP 2.3 Provide adequate resources for performing the requirements development process, developing the work products, and providing the services of the process.	IC Ab 1	W	Not directly addressed	RD GP 2.3
				RM Ab 3	W		RD GP 2.3
				SPE Ab 1	S		RD GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the requirements development process		N	Not directly addressed	RD GP 2.4
			GP 2.5 Train the people performing or supporting the requirements development process as needed.	SPE Ab 2	S		RD GP 2.5
			GP 2.6 Place designated work products of the requirements development process under appropriate levels of configuration management.	RM Ac 2	S	Subpractice 1	RD GP 2.6
				SCM Goal 2	S		RD GP 2.6
				SPE Ac 2	S	Subpractice 11	RD GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the requirements development process as planned.		N	SW-CMM v1.1 doesn't specify a plan for performing the RD process	RD GP 2.7
			GP 2.8 Monitor and control the requirements development process against the plan for performing the process and take appropriate corrective action.		N	SW-CMM v1.1 doesn't specify a plan for performing the RD process	RD GP 2.8
			GP 2.9 Objectively evaluate adherence of the requirements development process against its process description, standards, and procedures, and address noncompliance.	SPE Ve 3	S		RD GP 2.9
			GP 2.10 Review the activities, status, and results of the requirements development process with higher level management and resolve issues.	SPE Ve 1	S		RD GP 2.10
			GP 3.1 Establish and maintain the description of a defined requirements development process.	OPD Ac 3	W	Not directly addressed	RD GP 3.1
				OPD Ac 4	W		RD GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the requirements development process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	S		RD GP 3.2
	SPT&O Ac 11	S			RD GP 3.2		

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Maturity Level 3 (cont.)	Technical Solution	SG 1	Product or product component solutions are selected from alternative solutions.		N	Not addressed	TS SG 1
			SP 1.1 Develop detailed alternative solutions and selection criteria.		N	Not addressed	TS SP 1.1
			SP 1.2 Evolve the operational concept, scenarios, and environments to describe the conditions, operating modes, and operating states specific to each product component.		N	Not addressed	TS SP 1.2
			SP 1.3 Select the product component solutions that best satisfy the criteria established.		N	Not addressed	TS SP 1.3
		SG 2	Product or product-component designs are developed	SPE Ac 3	S		TS SG 2
			SP 2.1 Develop a design for the product or product component.	SPE Ac 3	S		TS SP 2.1
			SP 2.2 Establish and maintain a technical data package.	SPE Ac 3	S		TS SP 2.2
			SP 2.3 Design comprehensive product-component interfaces in terms of established and maintained criteria.	SPE Ac 3	W	Subpractice 8 SW CMM less rigorous	TS SP 2.3
			SP 2.4 Evaluate whether the product components should be developed, purchased, or reused based on established criteria.	ISM Ac 6	W	Subpractice 3	TS SP 2.4
		SG 3	Product components, and associated support documentation, are implemented from their designs.	SPE Ac 4 SPE Ac 8	S S		TS SG 3 TS SG 3
			SP 3.1 Implement the designs of the product components.	SPE Ac 4	S		TS SP 3.1
			SP 3.2 Develop and maintain the end-use documentation.	SPE Ac 8	S		TS SP 3.2
		GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	TS GG 3
			GP 2.1 Establish and maintain an organizational policy for planning and performing the technical solution process.	SPE Co 1	S		TS GP 2.1
			GP 2.2 Establish and maintain the plan for performing the technical solution process.	SPP Ac 6 SPP Ac 7	W W		TS GP 2.2 TS GP 2.2
			GP 2.3 Provide adequate resources for performing the technical solution process, developing the work products, and providing the services of the process.	SPE Ab 1	S		TS GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the technical solution process		N	Not directly addressed	TS GP 2.4
			GP 2.5 Train the people performing or supporting the technical solution process as needed.	SPE Ab 2 SPE Ab 3	S S		TS GP 2.5 TS GP 2.5
			GP 2.6 Place designated work products of the technical solution process under appropriate levels of configuration management.	SCM Goal 2 SPE AC 1 SPE AC 2 SPE AC 3 SPE AC 4 SPE AC 5 SPE AC 7 SPE AC 8 SPE AC 10	S S S S S W W S S		TS GP 2.6 TS GP 2.6 Subpractices 3,4 TS GP 2.6 Subpractice 11 TS GP 2.6 Subpractice 10 TS GP 2.6 Subpractice 5 TS GP 2.6 Subpractice 7 TS GP 2.6 Subpractice 8 TS GP 2.6 Subpractice 6 TS GP 2.6 Subpractice 3 TS GP 2.6

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference		
Maturity Level 3 (cont.)	Technical Solution (cont.)	GG 3 cont	GP 2.7 Identify and involve the relevant stakeholders of the technical solution process as planned.	IC Ac 3	S		TS GP 2.7		
				ISM Ac 4	W	Subpractice 9	TS GP 2.7		
				SPE Ac 3	W		TS GP 2.7		
			GP 2.8 Monitor and control the technical solution process against the plan for performing the process and take appropriate corrective action.	SPE Me 2	W	Not directly addressed	TS GP 2.8		
				SPT&O Goal 1	S		TS GP 2.8		
				SPT&O Ac 3	S		TS GP 2.8		
				SPT&O Ac 5	M		TS GP 2.8		
				SPT&O Ac 6	M		TS GP 2.8		
				SPT&O Ac7	M		TS GP 2.8		
				SPT&O Ac 8	S		TS GP 2.8		
				SPT&O Ac 9	S		TS GP 2.8		
				SPT&O Ac 10	S		TS GP 2.8		
				SPT&O Ac 12	S		TS GP 2.8		
				SPT&O Ac 13	S		TS GP 2.8		
			GP 2.9 Objectively evaluate adherence of the technical solution process against its process description, standards, and procedures, and address noncompliance.	SPE Ve 3	W	Not directly addressed	TS GP 2.9		
			GP 2.10 Review the activities, status, and results of the technical solution process with higher level management and resolve issues.	SPE Ve 1	W	Not directly addressed	TS GP 2.10		
			GP 3.1 Establish and maintain the description of a defined technical solution process.	OPD Ac 3	W	Not directly addressed	TS GP 3.1		
				OPD Ac 4	W		TS GP 3.1		
	GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the technical solution process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	S		TS GP 3.2				
		SPT&O Ac 11	S		TS GP 3.2				
	Product Integration	SG 1	Preparation for product integration is conducted.	SPE Ac 4	W		PI SG 1		
				SPE Ac 6	S		PI SG 1		
			SP 1.1 Determine the product-component integration sequence.	SPE Ac 4	S		PI SP 1.1		
				SPE Ac 6	S		PI SP 1.1		
				SPP Ac 14	S		PI SP 1.2		
			SP 1.2 Establish and maintain the environment needed to support the integration of the product components.	SP 1.3 Establish and maintain procedures and criteria for integration of the product components.		N	Not addressed	PI SP 1.3	
					SG 2	The product-component interfaces, both internal and external, are compatible.	SPE Ac 3	W	See subpractice 8
SPE Ac 3							W		PI SP 2.1
		SP 2.1 Review interface descriptions for coverage and completeness.	SP 2.2 Manage internal and external interface definitions, designs, and changes for products and product components.	SCM Ac 5	W		PI SP 2.2		
				SPE Ac 3	S		PI SP 2.2		
	SPE Ac 10			S		PI SP 2.2			

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference								
Maturity Level 3 (cont.)	Product Integration cont.	SG 3	Verified product components are assembled and the integrated, verified, and validated product is delivered.	SPE Ac 5	S	Implied	PI SG 3								
				SPE Ac 6	S		PI SG 3								
				SPE Ac 7	S		PI SG 3								
			SP 3.1 Confirm, prior to assembly, that each product component required to assemble the product has been properly identified, functions according to its description, and that the product-component interfaces comply with the interface descriptions.	IC Ac 5	SW CMM less rigorous	W		PI SP 3.1							
						S		PI SP 3.1							
				SPE Ac 6	W	SW CMM less rigorous			PI SP 3.2						
									PI SP 3.2						
				SPE Ac 6	S				PI SP 3.3						
									PI SP 3.3						
		SPE Ac 7	S			PI SP 3.3									
		SP 3.4	Package the assembled product or product component and deliver it to the appropriate customer.			N	Not addressed	PI SP 3.4							
		GG 3	The process is institutionalized as a defined process.			N	Implied by Level 3	PI GG 3							
			GP 2.1 Establish and maintain an organizational policy for planning and performing the product integration process.				N	Not directly addressed	PI GP 2.1						
						GP 2.2 Establish and maintain the plan for performing the product integration process.				N	Not directly addressed	PI GP 2.2			
													GP 2.3 Provide adequate resources for performing the product integration process, developing the work products, and providing the services of the process.	SPE Ab 1	W
						GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the product integration process			N	Not addressed	PI GP 2.4				
												GP 2.5 Train the people performing or supporting the product integration process as needed.	SPE Ab 2	S	
						SPE Ab 3	S		PI GP 2.5						
						SPE Ab 4	S		PI GP 2.5						
GP 2.6 Place designated work products of the product integration process under appropriate levels of configuration management.	SCM Goal 2					W			PI GP 2.6						
GP 2.7 Identify and involve the relevant stakeholders of the product integration process as planned.							N	CMM doesn't specify a plan for Product Integration	PI GP 2.7						
GP 2.8 Monitor and control the product integration process against the plan for performing the process and take appropriate corrective action.							N	CMM doesn't specify a plan for Product Integration	PI GP 2.8						
GP 2.9 Objectively evaluate adherence of the product integration process against its process description, standards, and procedures, and address noncompliance.	SPE Ve 3	S			PI GP 2.9										
GP 2.10 Review the activities, status, and results of the product integration process with higher level management and resolve issues.	SPE Ve 1	S			PI GP 2.10										

Mapping of CMMI-SE/SW/PPD/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference		
Maturity Level 3 (cont.)	Product Integration (cont.)	GG 3 cont	GP 3.1 Establish and maintain the description of a defined product integration process.	OPD Ac 3	W	Not directly addressed	PI GP 3.1		
				OPD Ac 4	W		PI GP 3.1		
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the product integration process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	S	PI GP 3.2			
				SPT&O Ac 11	S	PI GP 3.2			
		Verification	SG 1		Preparation for verification is conducted.	PR Ac 1	S	SW CMM More rigorous	VER SG 1
						PR Ac 2	S		VER SG 1
				SP 1.1 Select the work products to be verified and the verification methods that will be used for each.	PR Ac 1	S	VER SP 1.1		
					SPE Ac 5	S	VER SP 1.1		
					SPE Ac 6	S	VER SP 1.1		
					SPE Ac 7	S	VER SP 1.1		
	SPP Ac 14				S	Subpractice 3	VER SP 1.2		
	SPE Ac 7				W	VER SP 1.2			
			SP 1.2 Establish and maintain the environment needed to support verification.	SPE Ac 5	S	VER SP 1.3			
				SPE Ac 6	S	VER SP 1.3			
				SG 2	Peer reviews are performed on selected work products.	PR Ac 2	S	VER SG 2	
						PR Ac 1	S	VER SP 2.1	
			SP 2.1 Prepare for peer reviews of selected work products.	PR Ac 2	S	VER SP 2.2			
				PR Ac 3	S	VER SP 2.2			
				PR Ac 3	S	VER SP 2.3			
				QPM Ac 5	S	VER SP 2.3			
			SP 2.2 Conduct peer reviews on selected work products and identify issues resulting from the peer review.	SPE Ac 9	S	VER SP 2.3			
				SG 3	Selected work products are verified against their specified requirements.		N	Not directly addressed but practices covered by SPE & SQA	VER SG 3
						SP 3.1 Perform verification on the selected work products.	SPE Ac 5		S
				SPE Ac 6	S		VER SP 3.1		
	SPE Ac 7	S	VER SP 3.1						
		SP 3.2 Analyze the results of all verification activities and identify corrective action.	SQA Ac 5	S	VER SP 3.1				
			SPE Ac 7	S	VER SP 3.2				
			SPE Ac 9	S	VER SP 3.2				
			SQA Ac 5	S	VER SP 3.2				
		GG 3	The process is institutionalized as a defined process.	SQA Ac 7	S	VER SP 3.2			
				N	Implied by Level 3	VER GG 3			
		GP 2.1 Establish and maintain an organizational policy for planning and performing the verification process.	PR Co 1	W	Verification not directly addressed	VER GP 2.1			
			SPE Co 1	W		VER GP 2.1			

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference		
Maturity Level 3 (cont.)	Verification (cont.)	GG 3 (cont.)	GP 2.2 Establish and maintain the plan for performing the verification process.	PR Ac 1	W	Verification not directly addressed	VER GP 2.2		
				SPP Ac 6	W		VER GP 2.2		
				SPP Ac 7	W		VER GP 2.2		
						SQA Ac 1	W		VER GP 2.2
			GP 2.3 Provide adequate resources for performing the verification process, developing the work products, and providing the services of the process.	PR Ab 1	W	Verification not directly addressed	VER GP 2.3		
				SPE Ab 1	W		VER GP 2.3		
				SQA Ab 1	W		VER GP 2.3		
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the verification process		N	Verification not directly addressed	VER GP 2.4		
			GP 2.5 Train the people performing or supporting the verification process as needed.	PR Ab 2	S		VER GP 2.5		
				PR Ab 3	S		VER GP 2.5		
				SPE Ab 2	S		VER GP 2.5		
				SPE Ab 3	S		VER GP 2.5		
				SPE Ab 4	S		VER GP 2.5		
			GP 2.6 Place designated work products of the verification process under appropriate levels of configuration management.	SCM Goal 2	S		VER GP 2.6		
				SPE Ac 5	S	Subpractice 7	VER GP 2.6		
				SPE Ac 7	S	Subpractice 6	VER GP 2.6		
				SQA Ac 7	S	Subpractice 4	VER GP 2.6		
			GP 2.7 Identify and involve the relevant stakeholders of the verification process as planned.	SPE Ac 5	W		VER GP 2.7		
				SPE Ac 7	S	Subpractice 4	VER GP 2.7		
			GP 2.8 Monitor and control the verification process against the plan for performing the process and take appropriate corrective action.	PR Me 1	S	Verification not directly addressed	VER GP 2.8		
SPE Me 2	S			VER GP 2.8					
SPT&O Ac 12	S			VER GP 2.8					
	SPT&O Ac 13	S		VER GP 2.8					
GP 2.9 Objectively evaluate adherence of the verification process against its process description, standards, and procedures, and address noncompliance.	PR Ve 2	W	Verification not directly addressed	VER GP 2.9					
	SPE Ve 3	W		VER GP 2.9					
GP 2.10 Review the activities, status, and results of the verification process with higher level management and resolve issues.	SPE Ve 1	S	Verification not directly addressed	VER GP 2.10					
GP 3.1 Establish and maintain the description of a defined verification process.	OPD Ac 1	W	Verification not directly addressed	VER GP 3.1					
	OPD Ac 2	W		VER GP 3.1					

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference					
Maturity Level 3 (cont.)	Verification (cont.)	GG 3 cont	GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the verification process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	S	Verification not directly addressed	VER GP 3.2					
				OPF Ac 4	S	By inclusion	VER GP 3.2					
				PR Me 1	S		VER GP 3.2					
				SPE Me 2	S		VER GP 3.2					
				SPT&O Ac 11	S		VER GP 3.2					
	Validation	SG 1		Preparation for validation is conducted.		N	Not directly addressed	VAL SG 1				
					SP 1.1 Select products and product components to be validated and the validation methods that will be used for each.	SPE Ac 2	S		VAL SP 1.1			
						SPE Ac 5	S		VAL SP 1.1			
						SPE Ac 7	S		VAL SP 1.1			
					SP 1.2 Establish and maintain the environment needed to support validation.	SPE Ab1	S		VAL SP 1.2			
						SPE Ac 1	W		VAL SP 1.2			
						SPP Ac 14	S		VAL SP 1.2			
						SPE Ac 7	S		VAL SP 1.3			
					SP 1.3 Establish and maintain procedures and criteria for validation.							
					SG 2			The product or product components are validated to ensure that they are suitable for use in their intended operating environment.		N	Not directly addressed	VAL SG 2
									SP 2.1 Perform validation on the selected products and product components.	SPE Ac 7	S	
					SP 2.2 Analyze the results of the validation activities and identify issues.	SPE Ac 7	S			VAL SP 2.2		
						SPE Ac 9	S		VAL SP 2.2			
					GG 3			The process is institutionalized as a defined process.			Implied by Level 3	VAL GG 3
									GP 2.1 Establish and maintain an organizational policy for planning and performing the validation process.		N	Validation not directly addressed
					GP 2.2 Establish and maintain the plan for performing the validation process.		N	Validation plan not directly addressed		VAL GP 2.2		
						SPE Ac 7	W		VAL GP 2.2			
					GP 2.3 Provide adequate resources for performing the validation process, developing the work products, and providing the services of the process.	PR Ab 1	S		VAL GP 2.3			
						SPE Ab 1	S		VAL GP 2.3			
						SQA Ab 1	S		VAL GP 2.3			
GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the validation process	SPE Ac 7	S		VAL GP 2.4								
GP 2.5 Train the people performing or supporting the validation process as needed.	PR Ab 2	S		VAL GP 2.5								
	PR Ab 3	S		VAL GP 2.5								
	SPE Ab 2	S		VAL GP 2.5								
	SPE Ab 3	S		VAL GP 2.5								
	SPE Ab 4	S		VAL GP 2.5								
GP 2.6 Place designated work products of the validation process under appropriate levels of configuration management.	SCM Goal 2	S		VAL GP 2.6								
	SPE Ac 7	S	Subpractice 8	VAL GP 2.6								

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference			
Maturity Level 3 (cont.)	Validation (cont.)	GG 3 cont	GP 2.7 Identify and involve the relevant stakeholders of the validation process as planned.	SPE Ac 2	S		VAL GP 2.7			
			GP 2.8 Monitor and control the validation process against the plan for performing the process and take appropriate corrective action.	PR Me 1 SPE Me 2	W S	by inclusion	VAL GP 2.8 VAL GP 2.8			
			GP 2.9 Objectively evaluate adherence of the validation process against its process description, standards, and procedures, and address noncompliance.	PR Ve 1	W		VAL GP 2.9			
				SPE Ve 3	S		VAL GP 2.9			
			GP 2.10 Review the activities, status, and results of the validation process with higher level management and resolve issues.	SPE Ve 1	S		VAL GP 2.10			
			GP 3.1 Establish and maintain the description of a defined validation process.	OPD Ac 3	W	Not directly addressed	VAL GP 3.1			
				OPD Ac 4	W		VAL GP 3.1			
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the validation process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	S	by inclusion	VAL GP 3.2			
				OPF Ac 4	S	by inclusion	VAL GP 3.2			
				PR Me 1	W		VAL GP 3.2			
				SPE Ac 9	S		VAL GP 3.2			
				SPT&O Ac 11	S	by inclusion	VAL GP 3.2			
			Organizational Process Focus	SG1		Strengths, weaknesses, and improvement opportunities for the organization's processes are identified periodically and as needed.	OPF Goal 2	S	SW CMM more rigorous	OPF SG 1
	SP 1.1 Establish and maintain the description of the process needs and objectives for the organization.	QPM Ac 1				W	SW CMM addresses project, not organization	OPF SP 1.1		
		SP 1.2 Appraise the processes of the organization periodically and as needed to maintain an understanding of their strengths and weaknesses.				OPF Ac 1	S	SW-CMM more rigorous	OPF SP 1.2	
						OPF Ac 1	S		OPF SP 1.3	
						OPF Ac 5	S		OPF SP 1.3	
	SP 1.3 Identify improvements to the organization's processes and process assets.	TCM Ac 2				S		OPF SP 1.3		
		TCM Ac 4				S		OPF SP 1.3		
		OPF Goal 3				W		OPF SG 2		
	SG2					Improvements are planned and implemented, organizational process assets are deployed, and process-related experiences are incorporated into the organizational process assets.	OPF Ac 2	W		OPF SG 2
							SP 2.1 Establish and maintain process action plans to address improvements to the organization's processes and related process assets.	OPF Ac 1	S	
	OPF Ac 2	S						OPF SP 2.1		
	OPF Ac 3	W						OPF SP 2.1		
	PCM Ac 4	S						OPF SP 2.1		
	SP 2.2 Implement process action plans across the organization.	OPF Ac 3				W	SW-CMM less rigorous	OPF SP 2.2		
		PCM Ac 4	S		OPF SP 2.2					
OPF Ac 5		S		OPF SP 2.3						
ISM Ac 5		W		OPF SP 2.4						
SP 2.3 Deploy organizational process assets across the organization.	OPD Ac 5	W		OPF SP 2.4						
	OPD Ac 6	W		OPF SP 2.4						
Maturity Level 3 (cont.)	Organizational Process Focus	GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	OPF GG 3			

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference			
	cont		GP 2.1 Establish and maintain an organizational policy for planning and performing the organizational process focus process.	OPF Co 1	S		OPF GP 2.1			
			GP 2.2 Establish and maintain the plan for performing the organizational process focus process.	OPF Ac 2	S		OPF GP 2.2			
			GP 2.3 Provide adequate resources for performing the organizational process focus process, developing the work products, and providing the services of the process.	OPF Ab 2	S		OPF GP 2.3			
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational process focus process	OPF Ab 1	S		OPF GP 2.4			
			GP 2.5 Train the people performing or supporting the organizational process focus process as needed.	OPF Ab 3 OPF Ab 4	S S		OPF GP 2.5 OPF GP 2.5			
			GP 2.6 Place designated work products of the organizational process focus process under appropriate levels of configuration management.	SCM Goal 2	S		OPF GP 2.6			
			GP 2.7 Identify and involve the relevant stakeholders of the organizational process focus process as planned.	OPF Ac 2 OPF Ac 7	S S	Subpractice 3	OPF GP 2.7 OPF GP 2.7			
			GP 2.8 Monitor and control the organizational process focus process against the plan for performing the process and take appropriate corrective action.	OPF Me 1	S		OPF GP 2.8			
			GP 2.9 Objectively evaluate adherence of the organizational process focus process against its process description, standards, and procedures, and address noncompliance.		N	Not directly addressed	OPF GP 2.9			
			GP 2.10 Review the activities, status, and results of the organizational process focus process with higher level management and resolve issues.	OPF Ve 1	S		OPF GP 2.10			
			GP 3.1 Establish and maintain the description of a defined organizational process focus process.	OPF Ac 2	W		SW CMM addresses plan, not process			
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational process focus process to support the future use and improvement of the organization' s processes and process assets.	OPF Me 1	S		OPF GP 3.2			
			Organizational Process Definition	SG1		A set of organizational process assets is established and maintained.	OPD Ac 5 OPD Ac 6	S S		OPD SG 1 OPD SG 1
						SP 1.1 Establish and maintain the organization's set of standard processes.	OPD Ac 1 OPD Ac 2	S S		OPD SP 1.1 OPD SP 1.1
							SP 1.2 Establish and maintain descriptions of the life-cycle models approved for use in the organization.	OPD Ac 3	S	
					SP 1.3 Establish and maintain the tailoring criteria and guidelines for the organization's set of standard processes.	OPD Ac 4	S		OPD SP 1.3	
					SP 1.4 Establish and maintain the organization's measurement repository	OPD Ac 5	S		OPD SP 1.4	
					SP 1.5 Establish and maintain the organization's process asset library.	OPD Ac 5 OPD Ac 6	S S		OPD SP 1.5 OPD SP 1.5	
	Maturity Level 3 (cont.)	Organizational Process Definition cont	GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	OPD GG 3		

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
			GP 2.1 Establish and maintain an organizational policy for planning and performing the organizational process definition process.	OPD Co 1	S		OPD GP 2.1
			GP 2.2 Establish and maintain the plan for performing the organizational process definition process.	OPD Ac 1	W	SW-CMM v1.1 addresses procedure not plan	OPD GP 2.2
			GP 2.3 Provide adequate resources for performing the organizational process definition process, developing the work products, and providing the services of the process.	OPD Ab 1	S		OPD GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational process definition process		N	Not addressed	OPD GP 2.4
			GP 2.5 Train the people performing or supporting the organizational process definition process as needed.	OPD Ab 2	S		OPD GP 2.5
			GP 2.6 Place designated work products of the organizational process definition process under appropriate levels of configuration management.	OPD Ac 1	S	Subpractice 9	OPD GP 2.6
				OPD Ac 2	W		OPD GP 2.6
				OPD Ac 3	S	Subpractice 4	OPD GP 2.6
				OPD Ac 4	S	Subpractice 3	OPD GP 2.6
				OPD Ac 5	S	Subpractice 3	OPD GP 2.6
				OPD Ac 6	S	Subpractice 6	OPD GP 2.6
				SCM Goal 2	S		OPD GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the organizational process definition process as planned.		N	Not addressed	OPD GP 2.7
			GP 2.8 Monitor and control the organizational process definition process against the plan for performing the process and take appropriate corrective action.	OPD Me 1	W	No plan to measure against OPD process	OPD GP 2.8
			GP 2.9 Objectively evaluate adherence of the organizational process definition process against its process description, standards, and procedures, and address noncompliance.	OPD Ve 1	S		OPD GP 2.9
			GP 2.10 Review the activities, status, and results of the organizational process definition process with higher level management and resolve issues.		N	Not addressed	OPD GP 2.10
			GP 3.1 Establish and maintain the description of a defined organizational process definition process.	OPD Ac 1	S		OPD GP 3.1
				OPD Ac 2	S		OPD GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational process definition process to support the future use and improvement of the organization' s processes and process assets.	OPD Ac 5	W		OPD GP 3.2
				OPD Me 1	S		OPD GP 3.2

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference	
Maturity Level 3 (cont.)	Organizational Training	SG1	A training capability that supports the organization's management and technical roles is established and maintained.	TP Goal 2	S	SW CMM more rigorous	OT SG 1	
			SP 1.1 Establish and maintain the strategic training needs of the organization.	TP Ac 2	S	SW CMM less rigorous	OT SP 1.1	
			SP 1.2 Determine which training needs are the responsibility of the organization and which will be left to the individual project or support group.	TP Ac 2	W	SW CMM less rigorous	OT SP 1.2	
			SP 1.3 Establish and maintain an organizational training tactical plan.	TP Ac 2	S		OT SP 1.3	
			SP 1.4 Establish and maintain training capability to address organizational training needs.	TP Ab 2	W		OT SP 1.4	
				TP Ab 3	S		OT SP 1.4	
				TP Ac 1	W		OT SP 1.4	
			SG2	Training necessary for individuals to perform their roles effectively is provided.	TP Goal 3 Also appropriate KPA abilities regarding training	S		OT SG 2
				SP 2.1 Deliver the training following the organizational training tactical plan.	TP Ac 3	S		OT SP 2.1
				SP 2.2 Establish and maintain records of the organizational training.	TP Ac 6	S		OT SP 2.2
				SP 2.3 Assess the effectiveness of the organization' s training program.	TP Me 2	S		OT SP 2.3
					TP Ve 2	S		OT SP 2.3
			GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	OT GG 3
				GP 2.1 Establish and maintain an organizational policy for planning and performing the organizational training process.	TP Co 1	S		OT GP 2.1
				GP 2.2 Establish and maintain the plan for performing the organizational training process.	TP Ac 2	S		OT GP 2.2
				GP 2.3 Provide adequate resources for performing the organizational training process, developing the work products, and providing the services of the process.	TP Ab 2	S		OT GP 2.3
				GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational training process	TP Ab 1	S		OT GP 2.4
				GP 2.5 Train the people performing or supporting the organizational training process as needed.	TP Ab 3	S		OT GP 2.5
					TP Ab 4	S		OT GP 2.5
				GP 2.6 Place designated work products of the organizational training process under appropriate levels of configuration management.	SCM Goal 2	S		OT GP 2.6
					TP Ac 2	S	Subpractice 5	OT GP 2.6
					TP Ac 3	S	Subpractice 3	OT GP 2.6
				GP 2.7 Identify and involve the relevant stakeholders of the organizational training process as planned.	TP Ac 2	S		OT GP 2.7
				GP 2.8 Monitor and control the organizational training process against the plan for performing the process and take appropriate corrective action.	TP Me 1	S		OT GP 2.8
					TP Me 2	S		OT GP 2.8
				GP 2.9 Objectively evaluate adherence of the organizational training process against its process description, standards, and procedures, and address	TP Ve 2	S		OT GP 2.9
					TP Ve 3	S		OT GP 2.9

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Maturity Level 3 (cont.)	Organizational Training (cont.)	GG 3 (cont.)	GP 2.10 Review the activities, status, and results of the organizational training process with higher level management and resolve issues.	TP Ve 1	S		OT GP 2.10			
			GP 3.1 Establish and maintain the description of a defined organizational training process.	TP Ac 2	S		OT GP 3.1			
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational training process to support the future use and improvement of the organization's processes and process assets.	TP Me 1	S		OT GP 3.2			
	TP Me 2	S			OT GP 3.2					
	Integrated Project Management	SG 1		The project is conducted using a defined process that is tailored from the organization's set of standard processes.	ISM Goal 1	S		IPM SG 1		
					ISM Goal 2	S		IPM SG 1		
				SP 1.1 Establish and maintain the project's defined process.	ISM Ac 1	S		IPM SP 1.1		
					ISM Ac 2	S		IPM SP 1.1		
				SP 1.2 Use the organizational process assets and measurement repository for estimating and planning the project's activities.	ISM Ac 5	S		IPM SP 1.2		
				SP 1.3 Integrate the project plan and the other plans that affect the project to describe the project's defined process.	SPP Ac 6	S	Not directly addressed	IPM SP 1.3		
					SPP Ac 7	S		IPM SP 1.3		
				SP 1.4 Manage the project using the project plan, the other plans that affect the project, and the project's defined process.	ISM Ac 4	S	SW CMM less rigorous	IPM SP 1.4		
					ISM Ac 9	S		IPM SP 1.4		
					ISM Ac 11	S		IPM SP 1.4		
				SP 1.5 Contribute work products, measures, and documented experiences to the organizational process assets.	ISM Ac 5	S		IPM SP 1.5		
					OPD Ac 5	S		IPM SP 1.5		
					OPD Ac 6	S		IPM SP 1.5		
					SG 2	Coordination and collaboration of the project with relevant stakeholders is conducted.	IC Ac 2	S		IPM SG 2
							IC Ac 4	S		IPM SG 2
							IC Ac 7	S		IPM SG 2
				IC Goal 3			S		IPM SG 2	
					ISM Ac 11	S		IPM SG 2		
				SP 2.1 Manage the involvement of the relevant stakeholders in the project.		IC Ac 1	S		IPM SP 2.1	
						IC Ac 2	S		IPM SP 2.1	
						IC Ac 3	S		IPM SP 2.1	
	IC Ac 7	S				IPM SP 2.1				
	IC Ac 2	S				IPM SP 2.2				
	IC Ac 3	W				IPM SP 2.2				
	IC Ac 4	S				IPM SP 2.2				
	IC Ac 7	S				IPM SP 2.2				
	SP 2.2 Participate with relevant stakeholders to identify, negotiate, and track critical dependencies.		IC Ac 2	S		IPM SP 2.2				
			IC Ac 3	W		IPM SP 2.2				
			IC Ac 4	S		IPM SP 2.2				
SP 2.3 Resolve issues with relevant stakeholders.		IC Ac 7	S		IPM SP 2.2					
		IC Ac 2	S		IPM SP 2.3					
		IC Ac 6	S		IPM SP 2.3					
SG 3	The project is conducted using the project's shared vision.	SQM Ac 4	W	Subpractice 5	IPM SP 2.3					
			N	Not addressed	IPM SG 3					
	SP 3.1 Identify expectations, constraints, interfaces, and operational conditions applicable to the project's shared vision		N	Not addressed	IPM SP 3.1					
		SP 3.2 Establish and maintain a shared vision for the project.		N	Not addressed	IPM SP 3.2				

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 3 (cont.)	Integrated Project Management cont	SG 4	The integrated teams needed to execute the project are identified, defined, structured, and tasked.		N	Not addressed	IPM SG 4
			SP 4.1 Determine the integrated team structure that will best meet the project objectives and constraints.		N	Not addressed	IPM SP 4.1
			SP 4.2 Develop a preliminary distribution of requirements, responsibilities, authorities, tasks, and interfaces to teams in the selected integrated team structure.		N	Not addressed	IPM SP 4.2
			SP 4.3 Establish and maintain teams in the integrated team structure.		N	Not addressed	IPM SP 4.3
		GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	IPM GG 3
			GP 2.1 Establish and maintain an organizational policy for planning and performing the integrated project management process.	ISM Co 1 IC Co 1	S S		IPM GP 2.1
			GP 2.2 Establish and maintain the plan for performing the integrated project management process.	IC Ac 3	S	SW-CMM v1.1 doesn't specify "maintain" SW-CMM not as rigorous	IPM GP 2.2
				ISM Ac 2	W		IPM GP 2.2
				ISM Ac 3	S		IPM GP 2.2
			GP 2.3 Provide adequate resources for performing the integrated project management process, developing the work products, and providing the services of the process.	ISM Ab 1 IC Ab 1	S S		IPM GP 2.3 IPM GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the integrated project management process		N	Not addressed	IPM GP 2.4
			GP 2.5 Train the people performing or supporting the integrated project management process as needed.	ISM Ab 2 ISM Ab 3	S S		IPM GP 2.5 IPM GP 2.5
			GP 2.6 Place designated work products of the integrated project management process under appropriate levels of configuration management.	SCM Goal 2 ISM Ac 1 ISM Ac 2 ISM Ac 3 ISM Ac 10	W S S S S	Subpractice 5	IPM GP 2.6 IPM GP 2.6 IPM GP 2.6 IPM GP 2.6 IPM GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the integrated project management process as planned.	ISM Ac 4 ISM Ac 9 ISM Ac 10 ISM Ac 11	S S S S	Subpractice 9	IPM GP 2.7 IPM GP 2.7 IPM GP 2.7 IPM GP 2.7
			GP 2.8 Monitor and control the integrated project management process against the plan for performing the process and take appropriate corrective action.	ISM Me 1	S		IPM GP 2.8
			GP 2.9 Objectively evaluate adherence of the integrated project management process against its process description, standards, and procedures, and address noncompliance.	ISM Ve 3	S		IPM GP 2.9
			GP 2.10 Review the activities, status, and results of the integrated project management process with higher level management and resolve issues.	ISM Ve 1	S		IPM GP 2.10
Maturity Level 3 (cont.)	Integrated Project Management	GG 3 (cont.)	GP 3.1 Establish and maintain the description of a defined integrated project management process.	ISM Co 1	W	Not directly addressed	IPM GP 3.1

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference	
	(cont.)		GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the integrated project management process to support the future use and improvement of the organization's processes and process assets.	ISM Co 1	S	Subpractice 4	IPM GP 3.2	
				ISM Ac 4	S	Subpractice 5	IPM GP 3.2	
				ISM Ac 5	S	Subpractice 3	IPM GP 3.2	
				OPD Ac 5	S		IPM GP 3.2	
				OPF Ac 4	S		IPM GP 3.2	
				SPT&O Ac 11	S		IPM GP 3.2	
		Risk Management	SG 1	Preparation for risk management is conducted.		N	Not directly addressed	RSKM SG 1
			SP 1.1 Determine risk sources and categories.	ISM Ac 10	S	Detail often in subpractices	RSKM SP 1.1	
				RM Ac 3	W	Subpractice 2	RSKM SP 1.1	
				SPP Ac 7	W	Subpractice 9	RSKM SP 1.1	
				SPP Ac 13	S		RSKM SP 1.1	
			SP 1.2 Define the parameters used to analyze and categorize risks, and the parameters used to control the risk management effort.		N	Not addressed	RSKM SP 1.2	
			SP 1.3 Establish and maintain the strategy to be used for risk management.	ISM Ac 10	S		RSKM SP 1.3	
			SG 2	Risks are identified and analyzed to determine their relative importance.	ISM Ac 10	S	Detail often in subpractices	RSKM SG 2
				SPP Ac 13	S		RSKM SG 2	
			SP 2.1 Identify and document the risks.	ISM Ac 6	W	Subpractice 2	RSKM SP 2.1	
				ISM Ac 10	S		RSKM SP 2.1	
				SPP Ac 7	S	Subpractice 9	RSKM SP 2.1	
				SPP Ac 13	S		RSKM SP 2.1	
			SP 2.2 Evaluate and classify each identified risk using the defined risk categories and parameters, and determine its relative priority.	ISM Ac 10	S		RSKM SP 2.2	
				SPP Ac 13	S		RSKM SP 2.2	
			SG 3	Risks are handled and mitigated, where appropriate, to reduce adverse impacts on achieving objectives.	ISM Ac 10	S	Detail often in subpractices	RSKM SG 3
				SPP Ac 13	S		RSKM SG 3	
			SP 3.1 Develop a risk mitigation plan for the most important risks to the project, as defined by the risk management strategy.	ISM Ac 10	S	Detail often in subpractices	RSKM SP 3.1	
				ISM Ac 10	S	Detail often in subpractices	RSKM SP 3.2	
				SPT&O Ac 10	S		RSKM SP 3.2	
			GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	RSKM GG 3
			GP 2.1 Establish and maintain an organizational policy for planning and performing the risk management process.	ISM Co 1	W	Not directly addressed	RSKM GP 2.1	
				SPP Co 2	W		RSKM GP 2.1	
				SPT&O Co 2	W		RSKM GP 2.1	

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 3 (cont.)	Risk Management (cont.)	GG 3 (cont.)	GP 2.2 Establish and maintain the plan for performing the risk management process.	ISM Ac 2	W	SW-CMM v1.1 doesn't specify "maintain"	RSKM GP 2.2
				ISM Ac 1	W		RSKM GP 2.2
				ISM Ac 3	W		RSKM GP 2.2
				SPT&O Ab 1	W		RSKM GP 2.2
				SPT&O Ac 1	W		RSKM GP 2.2
			SPT&O Ac 2	W		RSKM GP 2.2	
			GP 2.3 Provide adequate resources for performing the risk management process, developing the work products, and providing the services of the process.	ISM Ab 1	S	included as subset	RSKM GP 2.3
				SPT&O Ab 3	S	included as subset	RSKM GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the risk management process	SPT&O Ab 2	S	included as subset	RSKM GP 2.4
			GP 2.5 Train the people performing or supporting the risk management process as needed.	ISM Ab 2	S	included as subset	RSKM GP 2.5
				ISM Ab 3	S	included as subset	RSKM GP 2.5
				SPT&O Ab 4	S	included as subset	RSKM GP 2.5
				SPT&O Ab 5	S	included as subset	RSKM GP 2.5
			GP 2.6 Place designated work products of the risk management process under appropriate levels of configuration management.	ISM Ac 10	S	Subpractice 5	RSKM GP 2.6
				SCM Goal 2	W		RSKM GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the risk management process as planned.	ISM Ac 10	S		RSKM GP 2.7
			GP 2.8 Monitor and control the risk management process against the plan for performing the process and take appropriate corrective action.	ISM Me 1	S		RSKM GP 2.8
			GP 2.9 Objectively evaluate adherence of the risk management process against its process description, standards, and procedures, and address noncompliance.	ISM Ve 3	S		RSKM GP 2.9
				SPT&O Ve 3	S		RSKM GP 2.9
			GP 2.10 Review the activities, status, and results of the risk management process with higher level management and resolve issues.	ISM Ve 1	S		RSKM GP 2.10
SPT&O Ve 1	S			RSKM GP 2.10			
GP 3.1 Establish and maintain the description of a defined risk management process.	OPD Ac 3	W	Not directly addressed	RSKM GP 3.1			
	OPD Ac 4	W		RSKM GP 3.1			
GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the risk management process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	S	included as subset	RSKM GP 3.2			
	OPF Ac 4	S		RSKM GP 3.2			
	SPT&O Ac 11	W		RSKM GP 3.2			

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Maturity Level 3 (cont.)	Integrated Teaming	SG 1	A team composition that provides the knowledge and skills required to deliver the team's product is established and maintained.		N	Not addressed	IT SG 1
			SP 1.1 Identify and define the team's specific internal tasks to generate the team's expected output.		N	Not addressed	IT SP 1.1
			SP 1.2 Identify the knowledge, skills, and functional expertise needed to perform team tasks.		N	Not addressed	IT SP 1.2
			SP 1.3 Assign the appropriate personnel to be team members based on required knowledge and skills.		N	Not addressed	IT SP 1.3
		SG 2	Operation of the integrated team is governed according to established principles.		N	Not addressed	IT SG 2
			SP 2.1 Establish and maintain a shared vision for the integrated team that is aligned with any overarching or higher-level vision.		N	Not addressed	IT SP 2.1
			SP 2.2 Establish and maintain a team charter based on the integrated team's shared vision and overall team objectives.		N	Not addressed	IT SP 2.2
			SP 2.3 Clearly define and maintain each team member's roles and responsibilities.		N	Not addressed	IT SP 2.3
			SP 2.4 Establish operating procedures.		N	Not addressed	IT SP 2.4
			SP 2.5 Establish and maintain collaboration among interfacing teams.	IC Ac 2	W		IT SP 2.5
				IC Ac 4	W		IT SP 2.5
				IC Ac 7	W		IT SP 2.5
		GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	IT GG 3
			GP 2.1 Establish and maintain an organizational policy for planning and performing the integrated teaming process.		N	Not directly addressed	IT GP 2.1
			GP 2.2 Establish and maintain the plan for performing the integrated teaming process.		N	Not addressed	IT GP 2.2
			GP 2.3 Provide adequate resources for performing the integrated teaming process, developing the work products, and providing the services of the process.		N	Not addressed	IT GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the integrated teaming process		N	Not addressed	IT GP 2.4
			GP 2.5 Train the people performing or supporting the integrated teaming process as needed.		N	Not addressed	IT GP 2.5
			GP 2.6 Place designated work products of the integrated teaming process under appropriate levels of configuration management.		N	Not addressed	IT GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the integrated teaming process as planned.		N	Not addressed	IT GP 2.7
	GP 2.8 Monitor and control the integrated teaming process against the plan for performing the process and take appropriate corrective action.		N	Not directly addressed	IT GP 2.8		
	GP 2.9 Objectively evaluate adherence of the integrated teaming process against its process description, standards, and procedures, and address noncompliance.		N	Not directly addressed	IT GP 2.9		
	GP 2.10 Review the activities, status, and results of the integrated teaming process with higher level management and resolve issues.		N	Not directly addressed	IT GP 2.10		

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference		
Maturity Level 3 (cont.)	Integrated Teaming (cont.)	GG 3 (cont.)	GP 3.1 Establish and maintain the description of a defined integrated teaming process.		N	Not directly addressed	IT GP 3.1		
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the integrated teaming process to support the future use and improvement of the organization's processes and process assets.		N	Not directly addressed	IT GP 3.2		
	Integrated Supplier Management	SG 1		Potential sources of products that best fit the needs of the project are identified, analyzed, and selected		N	Not directly addressed	ISM SG 1	
				SP 1.1 Identify and analyze potential sources of products that may be used to satisfy the project's requirements.		N	Not directly addressed	ISM SP 1.1	
		SG 2		SP 1.2 Use a formal evaluation process to determine which sources of custom-made and off-the-shelf products to use.		N	Not directly addressed	ISM SP 1.2	
				Work is coordinated with suppliers to ensure the supplier agreement is executed appropriately.	SSM Goal 3	S		ISM SG 2	
		SP 2.1 Monitor and analyze selected processes used by the supplier.				SSM Goal 4	S		ISM SG 2
						SSM Ac 8	S		ISM SP 2.1
						SSM AC 9	S		ISM SP 2.1
						SSM Ac 13	W		ISM SP 2.1
						SSM Ac 6	S	Subpractice 4,5,6	ISM SP 2.2
						SSM Ac 8	S		ISM SP 2.2
						SSM Ac 9	S		ISM SP 2.2
		SP 2.2 For custom-made products, evaluate selected supplier work products.				SSM Ac 13	W		ISM SP 2.2
						SSM Ac 6	S		ISM SP 2.2
	SP 2.3 Revise the supplier agreement or relationship, as appropriate, to reflect changes in conditions.				SSM Ac 13	W		ISM SP 2.2	
					SSM Ac 6	S		ISM SP 2.3	
	GG 3			The process is institutionalized as a defined process.		N	Implied by Level 3	ISM GG 3	
				GP 2.1 Establish and maintain an organizational policy for planning and performing the integrated supplier management process.	SSM Co 1	S		ISM GP 2.1	
				GP 2.2 Establish and maintain the plan for performing the integrated supplier management process.		N	Not addressed	ISM GP 2.2	
GP 2.3 Provide adequate resources for performing the integrated supplier management process, developing the work products, and providing the services of the process.				SSM Ab 1	S		ISM GP 2.3		
GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the integrated supplier management process				SSM Co 2	S		ISM GP 2.4		
GP 2.5 Train the people performing or supporting the integrated supplier management as needed.				SSM AB 2	S		ISM GP 2.5		
GP 2.6 Place designated work products of the integrated supplier management process under appropriate levels of configuration management.				SCM Goal 2	W		ISM GP 2.6		
GP 2.7 Identify and involve the relevant stakeholders of the integrated supplier management process as planned.					N	Not addressed	ISM GP 2.7		
GP 2.8 Monitor and control the integrated supplier management process against the plan for performing the process and take appropriate corrective action.					N	Not addressed	ISM GP 2.8		

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			GP 2.9 Objectively evaluate adherence of the integrated supplier management process against its process description, standards, and procedures, and address noncompliance.	SSM Ve 3	S		ISM GP 2.9	
			GP 2.10 Review the activities, status, and results of the integrated supplier management process with higher level management and resolve issues.	SSM Ve 1	S		ISM GP 2.10	
			GP 3.1 Establish and maintain the description of a defined integrated supplier management process.		N	Not addressed	ISM GP 3.1	
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the integrated supplier management process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		ISM GP 3.2	
				OPF Ac 4	W		ISM GP 3.2	
	Decision Analysis and Resolution	SG 1	Decisions are based on an evaluation of alternatives using established criteria.		N	Not addressed	DAR SG 1	
				SP 1.1 Establish and maintain guidelines to determine which issues are subject to a formal evaluation process.		N	Not addressed	DAR SP 1.1
			SP 1.2 Establish and maintain the criteria for evaluating alternatives, and the relative ranking of these criteria.		N	Not addressed	DAR SP 1.2	
			SP 1.3 Identify alternative solutions to address issues.		N	Not addressed	DAR SP 1.3	
			SP 1.4 Select the evaluation methods.		N	Not addressed	DAR SP 1.4	
			SP 1.5 Evaluate alternative solutions using the established criteria and methods.		N	Not addressed	DAR SP 1.5	
			SP 1.6 Select solutions from the alternatives based on the evaluation criteria.		N	Not addressed	DAR SP 1.6	
			GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	DAR GG 3
				GP 2.1 Establish and maintain an organizational policy for planning and performing the decision analysis and resolution process.		N	Not addressed	DAR GP 2.1
				GP 2.2 Establish and maintain the plan for performing the decision analysis and resolution process.		N	Not addressed	DAR GP 2.2
			GP 2.3 Provide adequate resources for performing the decision analysis and resolution process, developing the work products, and providing the services of the process.		N	Not addressed	DAR GP 2.3	
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the decision analysis and resolution process		N	Not addressed	DAR GP 2.4	
			GP 2.5 Train the people performing or supporting the decision analysis and resolution process as needed.		N	Not addressed	DAR GP 2.5	

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference				
Maturity Level 3 (cont.)	Decision Analysis and Resolution (cont.)	GG 3 (cont.)	GP 2.6 Place designated work products of the decision analysis and resolution process under appropriate levels of configuration management.		N	Not addressed	DAR GP 2.6				
			GP 2.7 Identify and involve the relevant stakeholders of the decision analysis and resolution process as planned.		N	Not addressed	DAR GP 2.7				
			GP 2.8 Monitor and control the decision analysis and resolution process against the plan for performing the process and take appropriate corrective action.		N	Not addressed	DAR GP 2.8				
			GP 2.9 Objectively evaluate adherence of the decision analysis and resolution process against its process description, standards, and procedures, and address noncompliance.		N	Not addressed	DAR GP 2.9				
			GP 2.10 Review the activities, status, and results of the decision analysis and resolution process with higher level management and resolve issues.		N	Not addressed	DAR GP 2.10				
			GP 3.1 Establish and maintain the description of a defined decision analysis and resolution process.		N	Not addressed	DAR GP 3.1				
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the decision analysis and resolution process to support the future use and improvement of the organization's processes and process assets.		N	Not addressed	DAR GP 3.2				
	Organizational Environment for Integration		SG 1	An infrastructure that maximizes the productivity of people and affects the collaboration necessary for integration is provided.		N	Not addressed	OEI SG 1			
				SP 1.1 Establish and maintain a shared vision for the organization.		N	Not addressed	OEI SP 1.1			
					SP 1.2 Establish and maintain an integrated work environment that supports IPPD by enabling collaboration and concurrent development.		N	Not addressed	OEI SP 1.2		
					SP 1.3 Identify the unique skills needed to support the IPPD environment.		N	Not addressed	OEI SP 1.3		
				SG 2	People are managed to nurture the integrative and collaborative behaviors of an IPPD environment			N	Not addressed	OEI SG 2	
						SP 2.1 Establish and maintain leadership mechanisms to enable timely collaboration		N	Not addressed	OEI SP 2.1	
							SP 2.2 Establish and maintain incentives for adopting and demonstrating integrative and collaborative behaviors at all levels of the organization.		N	Not addressed	OEI SP 2.2
				SP 2.3 Establish and maintain organizational guidelines to balance team and home organization responsibilities.		N	Not addressed	OEI SP 2.3			
					GG 3	The process is institutionalized as a defined process.			Implied by Level 3	OEI GG 3	
							GP 2.1 Establish and maintain an organizational policy for planning and performing the organizational environment for integration process.		N	Not addressed	OEI GP 2.1
							GP 2.2 Establish and maintain the plan for performing the organizational environment for integration process.		N	Not addressed	OEI GP 2.2
							GP 2.3 Provide adequate resources for performing the organizational environment for integration process, developing the work products, and providing the services of the process.		N	Not addressed	OEI GP 2.3

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Maturity Level 3 (cont.)	Organizational Environment for Integration (cont.)	GG 3 (cont.)	GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational environment for integration process		N	Not addressed	OEI GP 2.4
			GP 2.5 Train the people performing or supporting the organizational environment for integration process as needed.		N	Not addressed	OEI GP 2.5
			GP 2.6 Place designated work products of the organizational environment for integration process under appropriate levels of configuration management.		N	Not addressed	OEI GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the organizational environment for integration process as planned.		N	Not addressed	OEI GP 2.7
			GP 2.8 Monitor and control the organizational environment for integration process against the plan for performing the process and take appropriate corrective action.		N	Not addressed	OEI GP 2.8
			GP 2.9 Objectively evaluate adherence of the organizational environment for integration process against its process description, standards, and procedures, and address noncompliance.		N	Not addressed	OEI GP 2.9
			GP 2.10 Review the activities, status, and results of the organizational environment for integration process with higher level management and resolve issues.		N	Not addressed	OEI GP 2.10
			GP 3.1 Establish and maintain the description of a defined organizational environment for integration process.		N	Not addressed	OEI GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational environment for integration process to support the future use and improvement of the organization's processes and process assets.		N	Not addressed	OEI GP 3.2
			Maturity Level 4				
	Organizational Process Performance	SG 1	Baselines and models that characterize the expected process performance of the organization's set of standard processes are established and maintained.	QPM Goal 3	S		OPP SG 1
			SP 1.1 Select the processes or process elements in the organization's set of standard processes that are to be included in the organization's process performance analyses.		N	Not addressed	OPP SP 1.1
			SP 1.2 Establish and maintain definitions of the measures that are to be included in the organization's process performance analyses.		N	Not addressed	OPP SP 1.2
			SP 1.3 Establish and maintain quantitative objectives for quality and process performance for the organization.		N	Not addressed	OPP SP 1.3
			SP 1.4 Establish and maintain the organization's process performance baselines.	QPM Ac 7	S		OPP SP 1.4

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Maturity Level 4 (cont.)	Organizational Process Performance (cont.)	SG 1 (cont.)	SP 1.5 Establish and maintain the process performance models for the organization's set of standard processes.	QPM Ac 7	W	Process models are not explicitly mentioned in SW CMM. QPM Ac 7 is probably the practice that would cover the concept.	OPP SP 1.5	
		GG 3	The process is institutionalized as a defined process.		N	Implied by Level 3	OPP GG 3	
		GP 2.1	Establish and maintain an organizational policy for planning and performing the organizational process performance process.		N	SW-CMM addresses projects rather than the organization.	OPP GP 2.1	
		GP 2.2	Establish and maintain the plan for performing the organizational process performance process.		N		OPP GP 2.2	
		GP 2.3	Provide adequate resources for performing the organizational process performance process, developing the work products, and providing the services of the process.		N		OPP GP 2.3	
		GP 2.4	Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational process performance process		N		OPP GP 2.4	
		GP 2.5	Train the people performing or supporting the organizational process performance process as needed.	QPM Ab 4		S		OPP GP 2.5
				QPM Ab 5		S		OPP GP 2.5
				SQM Ab 2		S		OPP GP 2.5
				SQM Ab 3		S		OPP GP 2.5
		GP 2.6	Place designated work products of the organizational process performance process under appropriate levels of configuration management.		SCM Goal 2	W		OPP GP 2.6
		GP 2.7	Identify and involve the relevant stakeholders of the organizational process performance process as planned.			N		OPP GP 2.7
		GP 2.8	Monitor and control the organizational process performance process against the plan for performing the process and take appropriate corrective action.			N		OPP GP 2.8
		GP 2.9	Objectively evaluate adherence of the organizational process performance process against its process description, standards, and	QPM Ve 3		S		OPP GP 2.9
				SQM Ve 3		S		OPP GP 2.9
		GP 2.10	Review the activities, status, and results of the organizational process performance process with higher level management and resolve issues.	QPM Ve 1		S		OPP GP 2.10
				SQM Ve 1		S		OPP GP 2.10
GP 3.1	Establish and maintain the description of a defined organizational process performance process.	OPD Ac 1		W		OPP GP 3.1		
		OPD Ac 2		W		OPP GP 3.1		

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference	
Maturity Level 4 (cont.)	Organizational Process Performance (cont.)	GG 3 (cont.)	GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational process performance process to support the future use and improvement of the organization' s processes and process assets.	OPD Ac 5	W		OPP GP 3.2	
				OPF Ac 4	W		OPP GP 3.2	
	Quantitative Project Management	SG 1	The project is quantitatively managed using quality and process performance objectives.	<p>SP 1.1 Establish and maintain the project's quality and process performance objectives.</p> <p>SP 1.2 Select the processes and process elements that comprise the project' s defined process based on historical stability and capability data.</p> <p>SP 1.3 Select the subprocesses of the project's defined process that will be statistically managed</p> <p>SP 1.4 Monitor the project to determine whether the project' s objectives for quality and process performance will be satisfied, and identify corrective action as appropriate.</p>	SQM Goal 3	W	SW CMM less rigorous	QPM SG 1
					QPM Ac 1	S		QPM SP 1.1
					QPM Ac 2	S		QPM SP 1.1
					SQM Ac 1	S		QPM SP 1.1
					SQM Ac 3	S		QPM SP 1.1
						N	Not addressed	QPM SP 1.2
					QPM Ac 2	S	Subpractice 2	QPM SP 1.3
					QPM Ac 5	S		QPM SP 1.4
					SQM Ac 4	S		QPM SP 1.4
						S		
		S						
	S							
Maturity Level 4 (cont.)	Quantitative Project Management (cont.)	SG 2 (cont.)	SP 2.2 Establish and maintain an understanding of the variation of the selected subprocesses using the selected measures and analytic techniques.	QPM Ac 5	S	SW-CMM is less explicit about what is meant by quantitative control. A variety of quantitative charts and diagrams are suggested as possible tools. The CMMI in SP 2.2 (or Goal 2) doesn't mention control charts in the goal or practice statements, but there is little doubt left by the subpractices that this is what they had in mind.	QPM SP 2.2	

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Mapping of CMMI-SE/SW/IPP/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM v1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference
			SP 2.3 Monitor the performance of the selected subprocesses to determine their capability to satisfy their quality and process performance objectives, and identify corrective action as necessary.	QPM Ac 5	S		QPM SP 2.3
			SP 2.4 Record statistical and quality management data in the organization's measurement repository.	QPM Ac 4	S	Subpractice 9	QPM SP 2.4
				QPM Ac 7	S		QPM SP 2.4
		GG 3	The process is institutionalized as a defined process.			Implied by Level 3	QPM GG 3
			GP 2.1 Establish and maintain an organizational policy for planning and performing the quantitative project management process.	QPM Co 1	S		QPM GP 2.1
			GP 2.2 Establish and maintain the plan for performing the quantitative project management process.	QPM Ac 1	S	SW-CMM v1.1 not as rigorous	QPM GP 2.2
			GP 2.3 Provide adequate resources for performing the quantitative project management process, developing the work products, and providing the services of the process.	QPM Ab 2	S		QPM GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the quantitative project management process	QPM Ab 1	S		QPM GP 2.4
			GP 2.5 Train the people performing or supporting the quantitative project management process as needed.	QPM Ab 4	S		QPM GP 2.5
				QPM Ab 5	S		QPM GP 2.5

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 4 (cont.)	Quantitative Project Management (cont.)	GG 3 (cont.)	GP 2.6 Place designated work products of the quantitative project management process under appropriate levels of configuration management.	QPM Ac 1	S	Subpractice 4	QPM GP 2.6
				QPM Ac 5	S	Subpractice 9	QPM GP 2.6
				QPM Ac7	S	Subpractice 5	QPM GP 2.6
				SCM Goal 2	S		QPM GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the quantitative project management process as planned.	QPM Ac 1	W		QPM GP 2.7
				QPM Ac 2	S	Subpractice 5	QPM GP 2.7
			GP 2.8 Monitor and control the quantitative project management process against the plan for performing the process and take appropriate corrective action.	QPM Me 1	S		QPM GP 2.8
			GP 2.9 Objectively evaluate adherence of the quantitative project management process against its process description, standards, and procedures, and address noncompliance.	QPM Ve 3	S		QPM GP 2.9
			GP 2.10 Review the activities, status, and results of the quantitative project management process with higher level management and resolve issues.	QPM Ve 1	S		QPM GP 2.10
			GP 3.1 Establish and maintain the description of a defined quantitative project management process.	QPM Ac 1	S		QPM GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the quantitative project management process to support the future use and improvement of the organization's processes and process assets.	OPD Ac 5	W		QPM GP 3.2
				OPF Ac 4	W		QPM GP 3.2
				QPM Ac 4	S		QPM GP 3.2
				QPM Me 1	S		QPM GP 3.2
			SPT&O Ac 11	W		QPM GP 3.2	
Maturity Level 5							
	Organizational Innovation and Deployment	SG 1	Process and technology improvements that contribute to meeting quality and process-performance objectives are selected.	TCM Goal 2	M		OID SG 1
			SP 1.1 Collect and analyze process- and technology-improvement proposals.	PCM Ac 5	S	SW CMM less rigorous	OID SP 1.1
				TCM Ac 2	S		OID SP 1.1
				TCM Ac 4	W		OID SP 1.1
			SP 1.2 Identify and analyze innovative improvements that could increase the organization's quality and process performance.	TCM Ac 2	S	SW CMM less rigorous	OID SP 1.2
				TCM Ac 4	S		OID SP 1.2
			SP 1.3 Pilot process and technology improvements to select which ones to implement.	PCM Ac 7	S		OID SP 1.3
				TCM Ac 6	S		OID SP 1.3
			SP 1.4 Select process- and technology-improvement proposals for deployment across the organization.	OPF Ac 5	S		OID SP 1.4
				PCM Ac 5	W		OID SP 1.4
				TCM Ac 5	S		OID SP 1.4

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference
Maturity Level 5 (cont.)	Organizational Innovation and Deployment (cont.)	SG 2	Measurable improvements to the organization's processes and technologies are continually and systematically deployed.	PCM Goal 3	S		OID SG 2
				PCM Ac 3	W		OID SP 2.1
		SP 2.1 Establish and maintain the plans for deploying the selected process and technology improvements.	PCM Ac 5	S	Subpractice 5	OID SP 2.1	
			PCM Ac 8	S	Implied by Level 3	OID SP 2.1	
			TCM Ac 7	S		OID SP 2.1	
			SP 2.2 Manage the deployment of the selected process and technology improvements.	DP Ac 4	W		OID SP 2.2
				PCM Ac 5	W		OID SP 2.2
				PCM Ac 8	S		OID SP 2.2
				TCM Ac 7	S		OID SP 2.2
			SP 2.3 Measure the effects of the deployed process and technology improvements.	TCM Ac 8	S		OID SP 2.2
				PCM Ac 9	S		OID SP 2.3
				PCM Me 1	S		OID SP 2.3
		TCM Me 1		S		OID SP 2.3	
		GG 3		The process is institutionalized as a defined process.		N	Implied by Level 3
		GP 2.1 Establish and maintain an organizational policy for planning and performing the organizational innovation and deployment process.	PCM Co 1	S		OID GP 2.1	
			TCM Co 1	S		OID GP 2.1	
			GP 2.2 Establish and maintain the plan for performing the organizational innovation and deployment process.	PCM Ac 3	S		OID GP 2.2
				TCM Ac 1	S		OID GP 2.2
			GP 2.3 Provide adequate resources for performing the organizational innovation and deployment process, developing the work products, and providing the services of the process.	PCM Ab 1	S		OID GP 2.3
				TCM Ab 2	S		OID GP 2.3
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational innovation and deployment process	PCM Ac 2	W		OID GP 2.4
				TCM Ab 1	S		OID GP 2.4
			GP 2.5 Train the people performing or supporting the organizational innovation and deployment process as needed.	PCM Ab 2	S		OID GP 2.5
				PCM Ab 3	S		OID GP 2.5
				PCM Ab 4	S		OID GP 2.5
				TCM Ab 5	S		OID GP 2.5
			GP 2.6 Place designated work products of the organizational innovation and deployment process under appropriate levels of configuration management.	PCM Ac 3	S	Subpractice 4	OID GP 2.6
				SCM Goal 2	W		OID GP 2.6
			GP 2.7 Identify and involve the relevant stakeholders of the organizational innovation and deployment process as planned.	PCM Ac 3	W		OID GP 2.7
				PCM Ac 4	S		OID GP 2.7
				PCM Ac 6	S		OID GP 2.7
		PCM Ac 10		S		OID GP 2.7	
		TCM Ac 3		S		OID GP 2.7	
TCM Ac 5	W			OID GP 2.7			
TCM Ac 6	S			OID GP 2.7			
Maturity Level 5 (cont.)	Organizational Innovation and Deployment (cont.)	GG 3 (cont.)	GP 2.8 Monitor and control the organizational innovation and deployment process against the plan for performing the process and take appropriate corrective action.	PCM Me 1	S		OID GP 2.8
				TCM Me 1	S		OID GP 2.8

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Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMMv1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/PPD/SS cross reference				
			GP 2.9 Objectively evaluate adherence of the organizational innovation and deployment process against its process description, standards, and procedures, and address noncompliance.	PCM Ve 2 TCM Ve 2	S S		OID GP 2.9 OID GP 2.9				
			GP 2.10 Review the activities, status, and results of the organizational innovation and deployment process with higher-level management and resolve issues.	PCM Ve 1 TCM Ve 1	S S		OID GP 2.10 OID GP 2.10				
			GP 3.1 Establish and maintain the description of a defined organizational innovation and deployment process.	PCM Ac 3 TCM Ac 1	S S		OID GP 3.1 OID GP 3.1				
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational innovation and deployment process to support the future use and improvement of the organization's processes and process assets.	PCM Me 1	S		OID GP 3.2				
				TCM Me 1	S		OID GP 3.2				
			Causal Analysis and Resolution	SG 1	Root causes of defects and other problems are systematically determined.	DP Goal 2	S		CAR SG 1		
						SPE Ac 9	W		CAR SG 1		
						SP 1.1 Select the defects and other problems for analysis.	SPE Ac 9 DP Ac 3	W S		CAR SP 1.1 CAR SP 1.1	
						SP 1.2 Perform causal analysis of selected defects and other problems and propose actions to address them.	DP Ac 3	S		CAR SP 1.2	
						SG 2	Root causes of defects and other problems are systematically addressed to prevent their future occurrence.	DP Goal 3	S		CAR SG 2
		SP 2.1 Implement the selected action proposals that were developed in causal analysis.				DP Ac 7	S		CAR SP 2.1		
						SP 2.2 Evaluate the effect of changes on process performance.	DP Ac 4	W	Subpractice 8	CAR SP 2.2	
							PCM Ac 7 QPM Ac 7	S S		CAR SP 2.2 Subpractice 7 CAR SP 2.2	
		SP 2.3 Record causal analysis and resolution data for use across the project and organization.				DP Ac 5	S		CAR SP 2.3		
	GG 3	The process is institutionalized as a defined process.					N	Implied by Level 3	CAR GG 3		
							GP 2.1 Establish and maintain an organizational policy for planning and performing the causal analysis and resolution process.	DP Co 1	S		CAR GP 2.1
								DP Co 2	S		CAR GP 2.1
			GP 2.2 Establish and maintain the plan for performing the causal analysis and resolution process.	DP Ac 1	S		SW-CMM v1.1 not as rigorous	CAR GP 2.2			
			GP 2.3 Provide adequate resources for performing the causal analysis and resolution process, developing the work products, and providing the services of the process.	DP Ab 3	S			CAR GP 2.3			
			GP 2.4 Assign responsibility and authority for performing the process, developing the work products, and providing the services of the causal analysis	DP Ab 1	S			CAR GP 2.4			
				DP Ab 2	S			CAR GP 2.4			
				GP 2.5 Train the people performing or supporting the causal analysis and resolution process as needed.	DP Ab 4		S		CAR GP 2.5		
	Maturity Level 5 (cont.)	Causal Analysis and Resolution (cont.)	GG 3 (cont.)	GP 2.6 Place designated work products of the causal analysis and resolution process under appropriate levels of configuration management.	SCM Goal 2	W		CAR GP 2.6			
GP 2.7 Identify and involve the relevant stakeholders of the causal analysis and resolution process as planned.				DP Ab 1	W		CAR GP 2.7				
				DP Ab 2	S		CAR GP 2.7				
				DP Ab 3	S		CAR GP 2.7				

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Mapping of CMMI-SE/SW/IPP/SS Staged V.1.1 to SW-CMM V. 1.1



Process Maturity Level	CMMI Process Area	CMMI Goal	CMMI Specific Practice or Generic Practice	SW-CMM V.1.1 Goal/ Common Feature	Strength	Comments	CMMI-SE/SW/IPP/SS cross reference
				DP Ac 2	S		CAR GP 2.7
				DP Ac 3	S		CAR GP 2.7
				DP Ac 4	S		CAR GP 2.7
			GP 2.8 Monitor and control the causal analysis and resolution process against the plan for performing the process and take appropriate corrective action.	DP Me 1	S		CAR GP 2.8
			GP 2.9 Objectively evaluate adherence of the causal analysis and resolution process against its process description, standards, and procedures, and address noncompliance.	DP Ve 3	S		CAR GP 2.9
			GP 2.10 Review the activities, status, and results of the causal analysis and resolution process with higher level management and resolve issues.	DP Ve 1	S		CAR GP 2.10
			GP 3.1 Establish and maintain the description of a defined causal analysis and resolution process.		N	Not directly addressed	CAR GP 3.1
			GP 3.2 Collect work products, measures, measurement results, and improvement information derived from planning and performing the causal analysis and resolution process to support the future use and improvement of the organization's processes and process assets.	DP Me 1	S		CAR GP 3.2