



Mapping of SPiCE 1-2-1 for Automotive SPiCE PAM 3.1 Rule-Checker IDs to Blau-Gold-Band Rule-IDs

referring to Tool SW-Version 3.3.4 and Automotive SPiCE Guidelines, 1st edition, September 2017

Note: The rule-checker contains all rules, which can be checked automatically - i.e. without any further contextual information

rules/recom: 287/208 (Sum:495)		Σ checkable (maybe): 49 (66)		at Level 1/2/3: 400/63/31					
ID	Typ	Dom	RuleText	Page BlueGold	checkable	comment	Precon. CLmin	Scope	involved/related PA/BP/GP
[TAC.RC.4]	recom		If for engineering processes the traceability indicator is downrated, the consistency indicator should not be rated higher.	40	yes	Needs to be implemented with 10 rules; one for each affected process: RaiseWarning if SYS.2.BP7 > SYS.2.BP6; or SYS.3.BP7 > SYS.3.BP6; or SYS.4.BP8 > SYS.4.BP7; or SYS.5.BP6 > SYS.5.BP5; or SWE.1.BP7 > SWE.1.BP6; or SWE.2.BP8 > SWE.2.BP7; or SWE.3.BP6 > SWE.3.BP5; or SWE.4.BP6 > SWE.4.BP5; or SWE.5.BP8 > SWE.5.BP7; or SWE.6.BP6 > SWE.5.BP5	1	SYS.2 SYS.3 SYS.4 SYS.5 SWE.1 SWE.2 SWE.3 SWE.4 SWE.5 SWE.6	SYS.2.BP6 "Establish bidirectional traceability" SYS.2.BP7 "Ensure consistency" SYS.3.BP6 "Establish bidirectional traceability" SYS.3.BP7 "Ensure consistency" SYS.4.BP7 "Establish bidirectional traceability" SYS.4.BP8 "Ensure consistency" SYS.5.BP5 "Establish bidirectional traceability" SYS.5.BP6 "Ensure consistency" SWE.1.BP6 "Establish bidirectional traceability" SWE.1.BP7 "Ensure consistency" SWE.2.BP7 "Establish bidirectional traceability" SWE.2.BP8 "Ensure consistency" SWE.3.BP5 "Establish bidirectional traceability" SWE.3.BP6 "Ensure consistency" SWE.4.BP5 "Establish bidirectional traceability" SWE.4.BP6 "Ensure consistency" SWE.5.BP7 "Establish bidirectional traceability" SWE.5.BP8 "Ensure consistency" SWE.6.BP5 "Establish bidirectional traceability" SWE.6.BP6 "Ensure consistency"
[SYS.2.RL.9]	rule		If the specification of system requirements (BP1) is downrated, PA1.1 shall be downrated as all indicators (BP2, BP3, BP4, BP5, BP6, BP7 and BP8) are affected.	94	yes	Implemented as several rules: Precondition: BP1 rating < F RaiseErr if PA1.1 rating = F; or BP2 rating = F; or BP3 rating = F; or BP4 rating = F; or BP5 rating = F; or BP6 rating = F; or BP7 rating = F; or BP8 rating = F	1	SYS.2	SYS.2.PA1.1 "Process performance process attribute" SYS.2.BP1: "Specify system requirements." SYS.2.BP2: "Structure system requirements." SYS.2.BP3: "Analyze system requirements." SYS.2.BP4: "Analyze the impact on the operating environment." SYS.2.BP5: "Develop verification criteria." SYS.2.BP6: "Establish bidirectional traceability." SYS.2.BP7: "Ensure consistency." SYS.2.BP8: "Communicate agreed system requirements."
[SYS.3.RL.7]	rule		If the development of the system architectural design (BP1) is downrated, PA1.1 shall be downrated as all indicators (BP2, BP3, BP4, BP5, BP6, BP7 and BP8) are affected.	103	yes	Implemented as several rules: Precondition: BP1 rating < F RaiseErr if PA1.1 rating = F; or BP2 rating = F; or BP3 rating = F; or BP4 rating = F; or BP5 rating = F; or BP6 rating = F; or BP7 rating = F; or BP8 rating = F	1	SYS.3	SYS.3.PA1.1 "Process performance process attribute" SYS.3.BP1: "Develop system architectural design." SYS.3.BP2: "Allocate system requirements." SYS.3.BP3: "Define interfaces of system elements." SYS.3.BP4: "Describe dynamic behavior." SYS.3.BP5: "Evaluate alternative system architectures." SYS.3.BP6: "Establish bidirectional traceability." SYS.3.BP7: "Ensure consistency." SYS.3.BP8: "Communicate agreed system architectural design."
[SYS.3.RL.8]	rule		If the allocation of the system requirements to elements of the system architectural design (BP2) is downrated, the indicator BP6 should be downrated.	103	yes	Precondition: BP2 rating < F RaiseError if BP6 rating = F	1	SYS.3	SYS.3.BP2: "Allocate system requirements." SYS.3.BP6: "Establish bidirectional traceability."
[SYS.4.RL.13]	rule		If the indicator for developing the test specification (BP3) is downrated, the indicator (BP5) must not be rated higher.	110	yes	RaiseErr if BP5 rating > BP3 rating	1	SYS.4	SYS.4.BP3: "Develop specification for system integration test." SYS.4.BP5: "Select test cases."
[SYS.4.RL.15]	rule		If the indicator for selecting test cases (BP5) is rated P or N, the indicator BP6 shall be downrated.	110	yes	Precondition: BP5 rating < L RaiseErr if BP6 rating = F	1	SYS.4	SYS.4.BP5: "Select test cases." SYS.4.BP6: "Test integrated system."
[SYS.5.RL.10]	rule		If the indicator for developing the test specification (BP2) is downrated, the indicator BP3 must not be rated higher.	117	yes	RaiseErr if BP3 rating > BP2 rating	1	SYS.5	SYS.5.BP2: "Develop specification for system qualification test." SYS.5.BP3: "Select test cases."
[SYS.5.RL.12]	rule		If the indicator for selecting test cases (BP3) is rated P or N, the indicator BP4 shall be downrated.	117	yes	Precondition: BP3 rating < L RaiseErr if BP4 rating = F	1	SYS.5	SYS.5.BP3: "Select test cases." SYS.5.BP4: "Test integrated system"
[SWE.1.RL.10]	rule		If the specification of software requirements (BP1) is downrated, PA1.1 shall be downrated as all indicators (BP2, BP3, BP4, BP5, BP6, BP7 and BP8) are affected.	125	yes	Implemented as several rules: Precondition: BP1 rating < F RaiseErr if PA1.1 rating = F; or BP2 rating = F; or BP3 rating = F; or BP4 rating = F; or	1	SWE.1	SWE.1.PA1.1: "Process performance process attribute" SWE.1.BP1: "Specify software requirements." SWE.1.BP2: "Structure software requirements." SWE.1.BP3: "Analyze software requirements." SWE.1.BP4: "Analyze the impact on the operating environment." SWE.1.BP5: "Develop verification criteria." SWE.1.BP6: "Establish bidirectional traceability." SWE.1.BP7: "Ensure consistency." SWE.1.BP8: "Communicate agreed software requirements."
[SWE.2.RL.8]	rule		If the development of the software architectural design (BP1) is downrated, PA1.1 shall be downrated as all indicators (BP2, BP3, BP4, BP5, BP6, BP7, BP8 and BP9) are affected.	134	yes	Implemented as several rules: Precondition: BP1 rating < F RaiseErr if PA1.1 rating = F; or BP2 rating = F; or BP3 rating = F; or BP4 rating = F; or BP5 rating = F; or	1	SWE.2	SWE.2.PA1.1: "Process performance process attribute" SWE.2.BP1: "Develop software architectural design." SWE.2.BP2: "Allocate software requirements." SWE.2.BP3: "Define interfaces of software elements." SWE.2.BP4: "Describe dynamic behavior." SWE.2.BP5: "Define resource consumption objectives." SWE.2.BP6: "Evaluate alternative software architectures." SWE.2.BP7: "Establish bidirectional traceability." SWE.2.BP8: "Ensure consistency." SWE.2.BP9: "Communicate agreed software architectural design."
[SWE.2.RL.9]	recom		If the allocation of the software requirements to elements of the software architectural design BP2 is downrated, the indicator BP7 should be downrated.	134	yes	Precondition: BP2 rating < F RaiseError if BP7 rating = F	1	SWE.2	SWE.2.BP2: "Allocate software requirements." SWE.2.BP7: "Establish bidirectional traceability."
[SWE.3.RL.7]	rule		If the development of the software detailed design (BP1) is downrated, PA1.1 shall be downrated as all indicators (BP2, BP3, BP4, BP5, BP6, BP7, and BP8) are affected.	143	yes	Implemented as several rules: Precondition: BP1 rating < F RaiseErr if PA1.1 rating = F; or BP2 rating = F; or BP3 rating = F; or BP4 rating = F; or BP5 rating = F; or BP6 rating = F; or BP7 rating = F; or BP8 rating = F	1	SWE.3	SWE.3.PA1.1: "Process performance process attribute" SWE.3.BP1: "Develop software detailed design." SWE.3.BP2: "Define interfaces of software units." SWE.3.BP3: "Describe dynamic behavior." SWE.3.BP4: "Evaluate software detailed design." SWE.3.BP5: "Establish bidirectional traceability." SWE.3.BP6: "Ensure consistency." SWE.3.BP7: "Communicate agreed software detailed design." SWE.3.BP8: "Develop software units."
[SWE.4.RL.10]	rule		If the indicator for performing static verification of software units (BP3) is rated Por N, the indicator for summarizing and communicating the results BP7 shall be downrated.	148	yes	Precondition: BP3 rating < L RaiseErr if BP7 rating = F	1	SWE.4	SWE.4.BP3: "Perform static verification of software units." SWE.4.BP7: "Summarize and communicate results."
[SWE.4.RL.11]	rule		If the indicator for testing software units (BP4) is rated Por N, the indicator for summarizing and communicating the results BP7 shall be downrated.	148	yes	Precondition: BP4 rating < L RaiseErr if BP7 rating = F	1	SWE.4	SWE.4.BP4: "Test software units." SWE.4.BP7: "Summarize and communicate results."

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[SWE.5.RL.13]	rule		If the indicator for developing the test specification (BP3) is downrated, the indicator BP5 must not be rated higher.	156	yes	RaiseErr if BP5 rating > BP3 rating	1	SWE.5	SWE.5.BP3: "Develop specification for software integration test." SWE.5.BP5: "Select test cases."
[SWE.5.RL.14]	rule		If the indicator for selecting test cases (BP5) is rated P or N, the indicator (BP6) shall be downrated.	156	yes	Precondition: BP5 rating < L RaiseErr if BP6 rating = F	1	SWE.5	SWE.5.BP5: "Select test cases." SWE.5.BP6: "Test integrated software."
[SWE.6.RL.10]	rule		If the indicator for developing the test specification (BP2) is downrated, the indicator BP3 must not be rated higher.	163	yes	RaiseErr if BP3 rating > BP2 rating	1	SWE.6	SWE.6.BP2: "Develop specification for software qualification test." SWE.6.BP3: "Select test cases."
[SWE.6.RL.12]	rule		If the indicator for selecting test cases (BP3) is rated P or N, the indicator BP4 shall be downrated.	163	yes	Precondition: BP3 rating < L RaiseErr if BP4 rating = F	1	SWE.6	SWE.6.BP3: "Select test cases." SWE.6.BP4: "Test integrated software."
[SUP.1.RC.4]	recom		If the quality of work products (BP2) is downrated, the indicators BP4, BP5, and BP6, respectively, should be downrated.	170	yes	implemented as 3 rules: Precondition: BP2 rating < F RaiseWarning if BP4 rating = F; or RaiseWarning if BP5 rating = F; or RaiseWarning if BP6 rating = F	1	SUP.1	SUP.1.BP2: "Assure quality of work products." SUP.1.BP4: "Summarize and communicate quality assurance activities and results." SUP.1.BP5: "Ensure resolution of non-conformances." SUP.1.BP6: "Implement an escalation mechanism."
[SUP.1.RL.10]	rule		If the quality of work products (BP2) is rated N or P, PA 1.1 must not be rated higher than L.	171	yes	Precondition: BP2 rating < L RaiseErr if PA1.1 rating = F	1	SUP.1	SUP.1.BP2: "Assure quality of work products."
[SUP.1.RC.5]	recom		If the quality of process activities (BP3) is downrated, the indicators BP4, BP5, and BP6, respectively, should be downrated.	171	yes	implemented as 3 rules: Precondition: BP3 rating < F RaiseWarning if BP4 rating = F; or RaiseWarning if BP5 rating = F; or RaiseWarning if BP6 rating = F	1	SUP.1	SUP.1.BP3: "Assure quality of process activities." SUP.1.BP4: "Summarize and communicate quality assurance activities and results." SUP.1.BP5: "Ensure resolution of non-conformances." SUP.1.BP6: "Implement an escalation mechanism."
[SUP.1.RL.11]	rule		If the quality of process activities (BP3) is rated N or P, PA 1.1 must not be rated higher than L.	171	yes	Precondition: BP3 rating < L RaiseErr if PA1.1 rating = F	1	SUP.1	SUP.1.BP3: "Assure quality of process activities."
[SUP.8.RC.3]	recom		If the identification of configuration items is not properly done (BP2), the indicators BP5, BP7, BP8, and BP9 should be downrated.	179	yes	implemented as 4 rules: Precondition: BP2 rating < F RaiseWarning if BP5 rating = F; or RaiseWarning if BP7 rating = F; or RaiseWarning if BP8 rating = F; or RaiseWarning if BP9 rating = F	1	SUP.8	SUP.8.BP2: "Identify configuration items." SUP.8.BP5: "Control modifications and releases." SUP.8.BP7: "Report configuration status." SUP.8.BP8: "Verify the information about configured items." SUP.8.BP9: "Manage the storage of configuration items and baselines."
[SUP.8.RC.4]	recom		If establishing baselines (BP6) is downrated, the verification of configuration items and their baselines BP8 should be downrated.	179	yes	Precondition: BP6 rating < F RaiseErr if BP8 rating = F	1	SUP.8	SUP.8.BP6: "Establish baselines." SUP.8.BP8: "Verify the information about configured items."
[SUP.8.RC.5]	recom		If establishing a configuration management system (BP3) is downrated, the management of storage of items and baselines BP9 should be downrated.	179	yes	Precondition: BP3 rating < F RaiseErr if BP9 rating = F	1	SUP.8	SUP.8.BP3: "Establish a configuration management system." SUP.8.BP9: "Manage the storage of configuration items and baselines."
[SUP.8.RC.6]	recom		If establishing baselines (BP6) is downrated, the management of storage of baselines BP9 should be downrated.	179	yes	Precondition: BP6 rating < F RaiseErr if BP9 rating = F	1	SUP.8	SUP.8.BP6: "Establish baselines." SUP.8.BP9: "Manage the storage of configuration items and baselines."
[SUP.9.RC.2]	recom		If the degree of problem identification (BP2) is downrated, the problem status recording (BP3) should not be rated higher.	186	yes	RaiseErr if BP3 rating > BP2 rating	1	SUP.9	SUP.9.BP2: "Identify and record the problem." SUP.9.BP3: "Record the status of problems."
[SUP.9.RL.10]	rule		If the analysis of the problem (BP4) is rated P or N, the indicator BP5 must not be rated higher.	186	yes	Precondition: BP4 rating < L RaiseErr if BP5 rating > BP4 rating	1	SUP.9	SUP.9.BP4: "Diagnose the cause and determine the impact of the problem." SUP.9.BP5: "Authorize urgent resolution action."
[SUP.9.RC.4]	recom		If the analysis of the problem (BP4) is rated P or N, the indicator BP6 should be downrated.	186	yes	Precondition: BP4 rating < L RaiseErr if BP6 rating = F	1	SUP.9	SUP.9.BP4: "Diagnose the cause and determine the impact of the problem." SUP.9.BP6: "Raise alert notifications."
[SUP.9.RC.5]	recom		If the analysis of the problem (BP4) is rated P or N, the indicator BP7 should be downrated.	186	yes	Precondition: BP4 rating < L RaiseErr if BP7 rating = F	1	SUP.9	SUP.9.BP4: "Diagnose the cause and determine the impact of the problem." SUP.9.BP7: "Initiate problem resolution."
[SUP.9.RL.11]	rule		If problem status recording (BP3) is rated P or N, the indicator BP8 shall be downrated.	186	yes	Precondition: BP3 rating < L RaiseErr if BP8 rating = F	1	SUP.9	SUP.9.BP3: "Record the status of problems." SUP.9.BP8: "Track problems to closure."
[SUP.10.RC.9]	recom		If the degree of CR identification (BP2) is downrated, the indicator BP3 should not be rated higher.	194	yes	RaiseWarning if BP3 rating > BP2 rating	1	SUP.10	SUP.10.BP2: "Identify and record the change requests." SUP.10.BP3: "Record the status of change requests."
[SUP.10.RL.9]	rule		If the analysis of the change request (BP4) is rated P or N, the indicator BP5 must not be rated higher.	194	yes	Precondition: BP4 rating < L RaiseErr if BP5 rating > BP4 rating	1	SUP.10	SUP.10.BP4: "Analyze and assess change requests." SUP.10.BP5: "Approve change requests before implementation."
[SUP.10.RL.10]	rule		If CR status recording (BP3) is rated P or N, the indicator BP7 shall be downrated.	195	yes	Precondition: BP3 rating < L RaiseErr if BP7 rating = F	1	SUP.10	SUP.10.BP3: "Record the status of change requests." SUP.10.BP7: "Track change requests to closure."

ID	Typ	Dom	RuleText	Page BlueGold	checkable	comment	Precon. CLmin	Scope	involved/related PA/BP/GP
[MAN.3.RC.18]	recom		If the definition of the scope of work (BP1) is downrated, then the indicator BP2 should be downrated.	208	yes	Precondition: BP1 rating < F RaiseWarning if BP2 rating = F	1	MAN.3	MAN.3.BP1: "Define the scope of work." MAN.3.BP2: "Define project life cycle."
[MAN.3.RC.19]	recom		If the definition of the scope of work (BP1) is downrated, then the indicator BP3 should be downrated.	208	yes	Precondition: BP1 rating < F RaiseWarning if BP3 rating = F	1	MAN.3	MAN.3.BP1: "Define the scope of work." MAN.3.BP3: "Evaluate feasibility of the project."
[MAN.3.RC.20]	recom		If the project lifecycle (BP2) is downrated, the indicator BP4 should be downrated.	208	yes	Precondition: BP2 rating < F RaiseWarning if BP4 rating = F	1	MAN.3	MAN.3.BP1: "Define the scope of work." MAN.3.BP4: "Define, monitor and adjust project activities."
[MAN.3.RC.21]	recom		If the definition of the scope of work (BP1) is downrated, then the indicator BP5 should be downrated.	208	yes	Precondition: BP1 rating < F RaiseWarning if BP5 rating = F	1	MAN.3	MAN.3.BP1: "Define the scope of work." MAN.3.BP5: "Determine, monitor und adjust project estimates and resources."
[MAN.3.RC.28]	recom		If Risk Management (MAN.5 PA 1.1) is downrated then the indicator BP5 (control of estimates and resources) should not be rated higher than L.	209	yes	PreCondition: MAN.5 in scope and MAN.5.PA1.1 rated < F RaiseWarning if MAN.3.BP5 rating = F	1	MAN.3	MAN.5.PA1.1: "Process performance process attribute" MAN.3.BP5: "Determine, monitor und adjust project estimates and resources."
[CL2.RC.1]	recom		At least one of the ratings of PA 2.1 or PA 2.2 should not be greater than the rating of PA 1.1.	212	yes	Precondition: PA2.1 rating > PA1.1 rating RaiseWarning if PA2.2 rating > PA1.1 rating	2	*	PA 1.1: "Process performance process attribute" PA 2.1: "Performance management process attribute" PA 2.2: "Work product management process attribute"
[CL2.RL.22]	rule		If the indicator for identifying the objectives for the performance of the process (GP2.1.1) is downrated, the indicator GP 2.1.2 shall be downrated.	223	yes	PreCondition: GP2.1.1 < F RaiseError if GP2.1.2 = F	2	*	GP 2.1.1: "Identify the objectives for the performance of the process." GP2.1.2: "Plan the performance of the process to fulfill the identified objectives."
[CL2.RL.23]	rule		If the indicator for planning the performance of the process (GP2.1.2) is downrated, the indicator GP2.1.3 must not be rated higher.	223	yes	RaiseError if GP2.1.3 > GP2.1.2	2	*	GP2.1.2: "Plan the performance of the process to fulfill the identified objectives." GP2.1.3: "Monitor the performance of the process against the plans."
[CL2.RL.24]	rule		If the indicator for identifying the objectives of the process (GP2.1.1) is downrated, the indicator GP2.1.4 shall be downrated.	223	yes	PreCondition: GP2.1.1 < F RaiseError if GP2.1.4 = F	2	*	GP 2.1.1: "Identify the objectives for the performance of the process." GP2.1.4: "Adjust the performance of the process."
[CL2.RL.25]	rule		If the indicator for planning the performance of the process (GP2.1.2) is downrated, the indicator GP2.1.4 must not be rated higher.	223	yes	RaiseError if GP2.1.4 > GP2.1.2	2	*	GP2.1.2: "Plan the performance of the process to fulfill the identified objectives." GP2.1.4: "Adjust the performance of the process"
[CL2.RL.26]	rule		If the indicator for monitoring the performance of the process (GP2.1.3) is downrated, the indicator GP2.1.4 must not be rated higher.	223	yes	RaiseError if GP2.1.4 > GP2.1.3	2	*	GP2.1.3: "Monitor the performance of the process against the plans." GP2.1.4: "Adjust the performance of the process."
[CL2.RL.27]	rule		If the indicator for planning the performance of the process (GP2.1.2) is downrated, the indicator GP2.1.6 must not be rated higher.	224	yes	RaiseError if GP2.1.6 > GP2.1.2	2	*	GP2.1.2: "Plan the performance of the process to fulfill the identified objectives." GP2.1.6: "Identify, prepare, and make available resources to perform the process according to plan."
[CL2.RL.40]	rule		If the indicator for defining requirements for documentation and control of the work products (GP2.2.2) is downrated, the indicator GP2.2.3 must not be rated higher.	232	yes	RaiseError if GP2.2.3 > GP2.2.2	2	*	GP 2.2.2: "Define the requirements for documentation and control of the work products." GP2.2.3: "Identify, document and control the work products."
[CL3.RL.20]	rule		If the indicator for Identify the required infrastructure and work environment (GP 3.1.4) is downrated, the indicator (GP 3.2.5) shall be downrated.	245	yes	PreCondition: GP3.1.4 < F RaiseError if GP3.2.5 = F	3	*	GP 3.1.4: "Identify the required infrastructure and work environment for performing the standard process." GP 3.2.5: "Provide adequate process infrastructure to support the performance of the defined process."
[CL3.RL.22]	rule		If the definition of responsibilities and authorities (GP 2.1.5) is downrated, the indicator GP3.2.2 shall be downrated.	246	yes	PreCondition: GP2.1.5 < F RaiseError if GP3.2.2 = F	3	*	GP 2.1.5: "Define responsibilities and authorities for performing the process." GP 3.2.2: "Assign and communicate roles, responsibilities and authorities for performing the defined process."