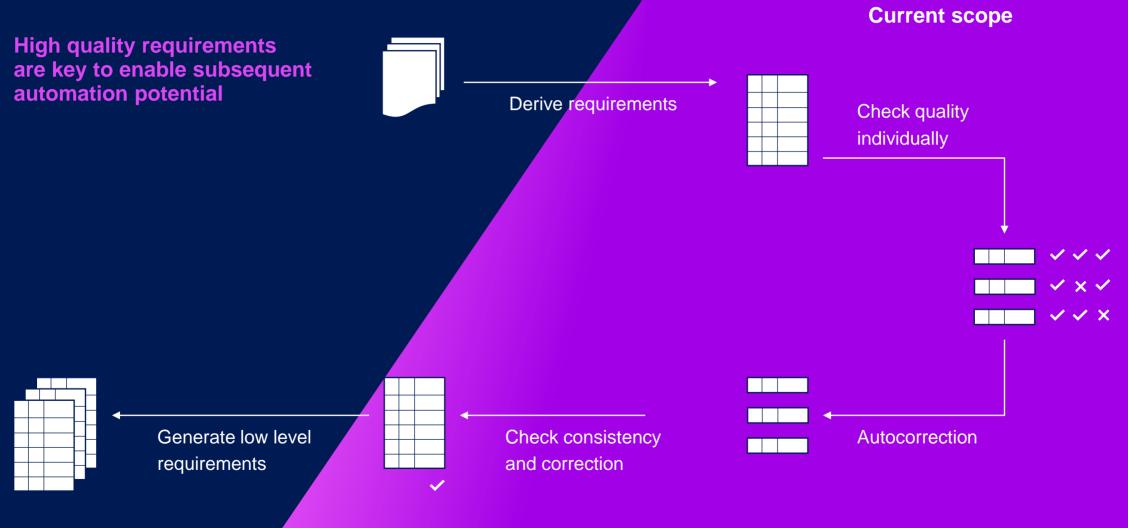
# IAV AI infused engineering IAV Devpanion

# IAV Devpanion Requirements – AI assisted Requirements Engineering



# IAV Devpanion Requirements – Define your own Checks

Requirement	ts Selection 2 Configuration		4 Consisten	ncy Check	
Configuration					
Validation Crite	eria			Reset Confi	guration
Name	Definition		Evaluate	Suggest Autocorrection	+
atomic	Each requirement is atomic and cannot be divided into separate requirements without all	<b>V</b>			
unambiguous	Each requirement is subject to only one interpretation with only objective facts. Any form However, as it is part of a collection of requirements, it must not describe any detail about	ed. 🖸			
Consistent Language	Each requirement is written in (language).		9	•	
strict	Each requirement is a strict requirement, which means that it does not contain formulation	ons like 'should' that suggest that the requirement or parts of it are mandatory instead of 'must' or 'shall'.	9		
Follows Template	Each requirement must adhere to a specific, predefined sentence structure template com	monly accepted in the field of requirements engineering.	9	•	
Purpose Independent	Each requirement must not contain phrases describing the purpose or justification of the	e requirement, only a concise statement of the need.	•		
Testable	It must be possible to derive a test for each requirement.		۲		
Alliteration	Every <u>Requirement</u> must start with the letter "A"			۵	٥
Back					Next

## IAV Devpanion Requirements – Quality Checks and Autocorrection

<u></u>						
quirements 🚺 Total:	16 Unhandled: 13			Evaluation Results	Expert View	
Requirement				Evaluation		
The vehicle attendar	t must have the ability to monitor the status of the shi	uttle. 🕚	+ 0 ^	Criterion	Comment	
expected value mus	distribution, the standard deviation of the lateral localiz not be more than 5 cm.	tation error from its	+ 0	🕕 unambiguous	The requirement contains compound statements and inc multiple interpretations.	definite temporal statements, making it subject to
	ure that the total weight does not exceed the value: tal weight does not exceed the value of 2000 kg.	•	- ା ତ <u>ଓ</u>	() Purpose Independent	The requirement describes the purpose of marking the v emergency situation.	ideo and audio data in the context of an
video and audio dat	nergency situation. aggression detection or an emerge a must be marked separately in the data record 15 min only be overwritten after 7 days.	-	ΘΟ	🕑 Testable		
<ul> <li>All video and audio data r and after an emergency si</li> </ul>	nust be marked separately in the data record 15 minu tuation.	tes before 🖉 Accept	Reject	🛞 atomic	The requirement contains multiple conditions and action	is that can be separated.
<ul> <li>All video and audio data r and after aggression dete</li> </ul>	nust be marked separately in the data record 15 minu	tes before	Reject	Consistent Language		
and after aggression dete	aon.			Strict		
<ul> <li>All video and audio data r and after an emergency b</li> </ul>	nust be marked separately in the data record 15 minu aking maneuver.	Accept	Reject	S Follows Template	The requirement does not follow a specific, predefined s	entence structure template.
Accept Selected Reject Se				× Alliteration	The requirement does not start with the letter 'A'.	
		< 1 >	100 / page 🗸			



# **IAV** Devpanion Requirements – Consistency check across requirements

quire	ements ) Check consistency	Cancel	Identified Inconsistencies		
	Requirement	¥	Inconsistency: There is a conflict regarding the duration for which video and audio data should be stored before being	0	4
C.	• A vehicle attendant must have the ability to monitor the status of the shuttle.	🗢 🗎	overwritten. Some requirements specify 7 days, while others specify 5 days.	0	
	Assuming a normal distribution, the standard deviation of the lateral localization error from its expected value n not be more than 5 cm.	must 🥑	Inconsistency: The requirement about the vehicle attendant's ability to monitor the status of the shuttle is duplicated.	0	4
	• A system must ensure that the total weight does not exceed the value of 2000 kg.	0		< 1	1
	All video and audio data must be marked separately in the data record 15 minutes before and after an emerge situation.	gency 🥑			-
6	All video and audio data must be marked separately in the data record 15 minutes before and after aggressic detection.	on 🥑			
5	All video and audio data must be marked separately in the data record 15 minutes before and after an emerg braking maneuver.	gency 🥑			
	<ul> <li>All video and audio data may only be overwritten after 7 days.</li> </ul>	•			
	A report of the lock status (locked/unlocked) must be sent to the control center.	0			
	• A shuttle must have a maximum speed of 30 kmh.	0			
1	All passengers must be informed in an appropriate manner that the number of passengers must be reduced before the start of the journey.	•			
	< 1 > 10	10 / page \vee			



# IAV Devpanion Requirements Also available as integration in Codebeamer – please contact us

Require	nents Validator			¢						
Requi	rements Input	Requirements C	Dutput							
Index	Requirements +	× Unambiguous	conditioning system are required, or if one or the other is sufficient for a conditioning system are required, or if one or the other is sufficient for a compartment.	ir conditioning in the passenger						
#1	The vehicle attendant must have the ability to monitor the status of the shuttle.	Consistent								
# 2	Das Shuttle muss manuell rückwärts fahren können.	V Follows Template								
#3	A ventilation system and an air conditioning system must be provided for air conditioning in the passenger compartment.	× Design Independent	The requirement specifies that a ventilation system and an air conditioning conditioning in the passenger compartment. This places unjustified considered and the second s	ng system must be used for air traints on the design by requesting						
#4	The energy requirements of the shuttle planned for the design must be communicated to the project team.	, Purpose	specific technologies to be used.	🥲 codebeamer	_		cation Lifecycle Management (ALM)			
#5	The shuttle must have an easily visible electricity meter that counts any electricity brought into the vehicle.	Independent		-					(9	Search Q <sup>2</sup> DD codecode
	Process Clear	Correction		My Start I Projects I Reports My Public Project • Trackers		currents I Trackers I SCM Repositories I Base	elines I Members Trash			
			partment must be equipped with a system for ventilation.	My Public Project * Trackers User Stories , All Items Sprint	Planning		+AND/OR GO @	Working-Set: Default Working	-Set	は雲かまく
				Super Stories	User Stories 1				E E	
				User Stories 2	User Stories User Stories	User Stories		Requirements Quality Ch	necker	≈ \//
	<u>A</u> \$			- 🔤 US 3 - 🚭 US 2 - 🍝 test - 🗠 test	User Stories 2					
1000	•			- Catest	User Stories User Stories	User Stories		Check and Correct Evaluate requirements against selected via	alidation criteria and export corrected r	requirements back to Codebeamer.
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	US 1			Number of Requirements	Unhandled Requirements	Failed to Check
					+			20	0 12	Paried to Check 1
					US 3			Evaluation Results		
					🔤 US 2			Evaluation Status All	~	
					+			1.2.3.4.4. Prioritisation of retentio	n agents	2 issues
					test			Each cockpit voice recorder shall record	-	
					+ test		Case when requirement has issues to correct	loudspeaker system, if there is such a s requirements of paragraph (c)(4)(i) of th	ystem and if the fourth channel is avail	
					test		This issues to context	*. Autocorrect Suggestion @ Ana	alysis Result	
					+			Each cockpit voice recorder shall	record voice communications of flight	crew membersusing the passenger
					test		Valorie	loudspeaker system, if there is su Accept Reject		
					a test				record voice the passenger loudspeak	ker system, if there is such a
					test			system. Accept Reject		
						文档样式的编辑方式				
					+ hhzkxckdfdsasd			1.2.3.4.5. Recorder container		15 issues
						This site is powered by Codebeamer 2.2.0.0 (postg	gresql).   Incident / Question   Help Center   📰 Hotkeys	Each recorder container must be either	bright orange or bright yellow.	