



QVscribe for DOORS Next Walkthrough

Before starting the walkthrough

Make sure you have downloaded, installed and logged into QVscribe for DOORS Next before starting this walkthrough. You can refer to our client portal for more information on installation.

Chrome:

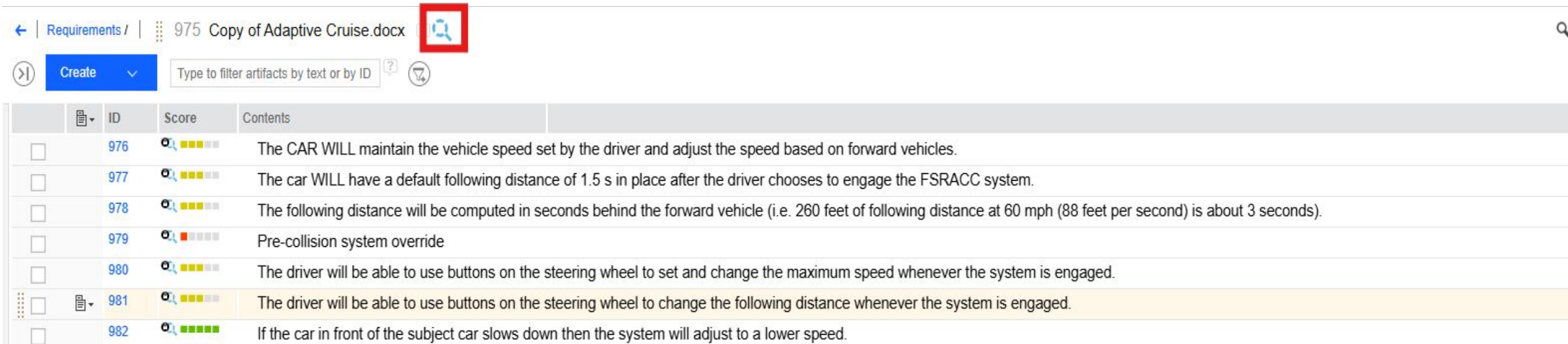
<https://qvscribe.com/knowledge/qvscribe-doors-next-user-set-up-chrome>

Microsoft Edge:

<https://qvscribe.com/knowledge/qvscribe-doors-next-user-set-up-for-microsoft-edge>

Start using QVscribe

Once you have logged in, select the QVscribe icon at the top of any Projects or Modules. This will open the QVscribe Summary Dashboard.



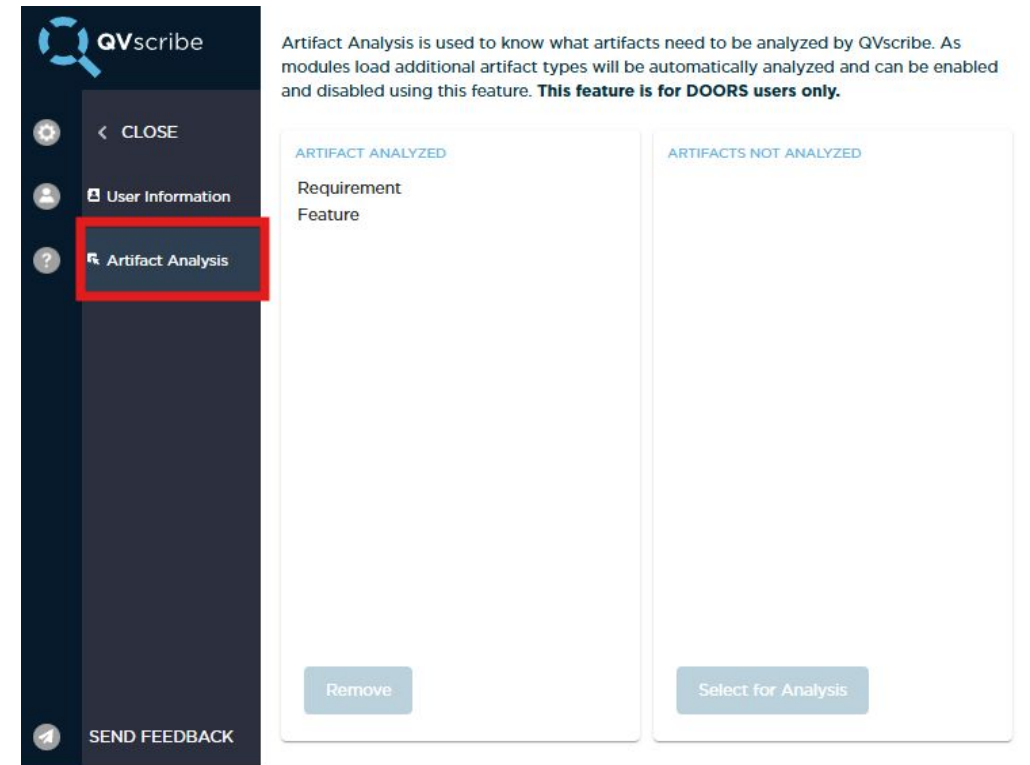
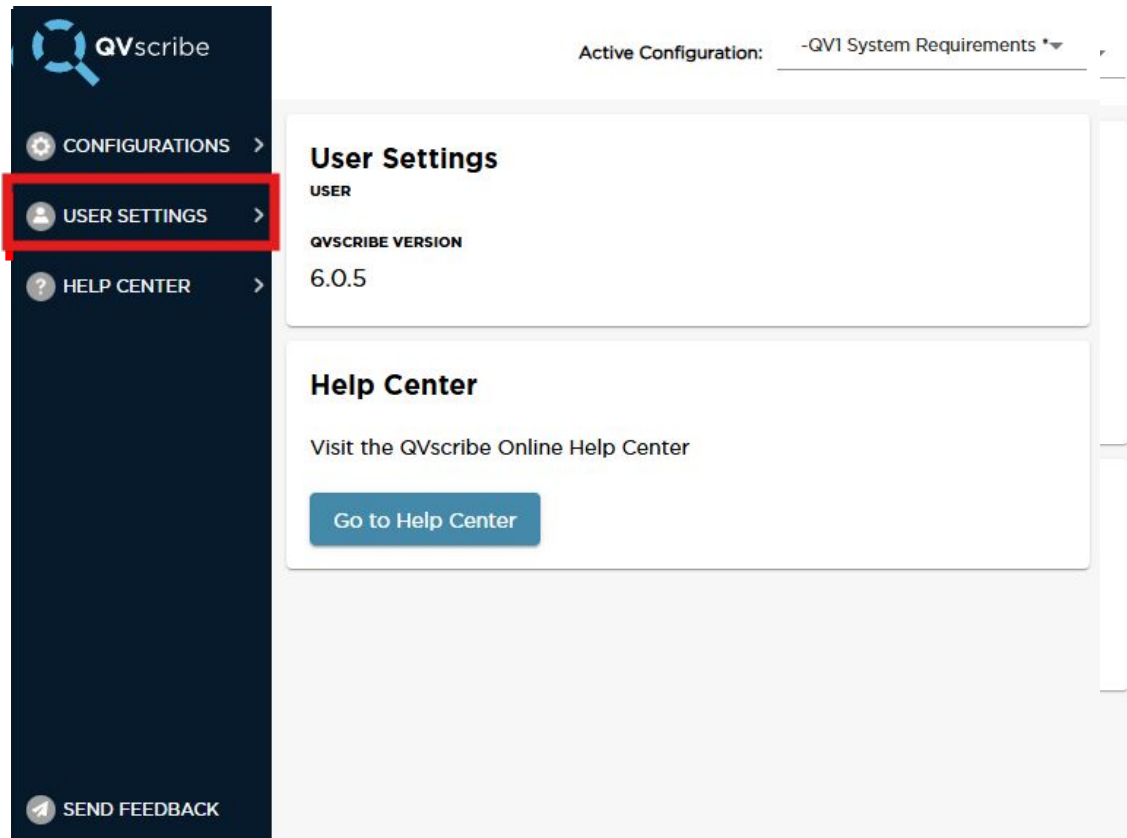
The screenshot shows a software interface for managing requirements. At the top, there is a breadcrumb trail: Requirements / 975 Copy of Adaptive Cruise.docx. A red box highlights a QVscribe icon (a magnifying glass over a document) located to the right of the breadcrumb. Below the breadcrumb is a search bar with the placeholder text "Type to filter artifacts by text or by ID" and a "Create" button. The main content is a table with columns for "ID", "Score", and "Contents". The table contains several rows of requirements, with the row for ID 981 highlighted in yellow.

	ID	Score	Contents
<input type="checkbox"/>	976	QVscribe [4/5]	The CAR WILL maintain the vehicle speed set by the driver and adjust the speed based on forward vehicles.
<input type="checkbox"/>	977	QVscribe [4/5]	The car WILL have a default following distance of 1.5 s in place after the driver chooses to engage the FSRACC system.
<input type="checkbox"/>	978	QVscribe [4/5]	The following distance will be computed in seconds behind the forward vehicle (i.e. 260 feet of following distance at 60 mph (88 feet per second) is about 3 seconds).
<input type="checkbox"/>	979	QVscribe [1/5]	Pre-collision system override
<input type="checkbox"/>	980	QVscribe [4/5]	The driver will be able to use buttons on the steering wheel to set and change the maximum speed whenever the system is engaged.
<input type="checkbox"/>	981	QVscribe [4/5]	The driver will be able to use buttons on the steering wheel to change the following distance whenever the system is engaged.
<input type="checkbox"/>	982	QVscribe [5/5]	If the car in front of the subject car slows down then the system will adjust to a lower speed.

Configuring Artifact Types

To configure the artifacts you would like QVscribe to analyze, go to your QVscribe Chrome/Edge Extension.

Within the QVscribe Chrome/Edge Extension, the Artifact Analysis settings can be found under User Settings.



In the left column titled “Artifacts Analyzed” is the list of artifact types that QVscribe will analyze.

Configuring Artifact Types

By default, as you browse any Projects or Modules, QVscribe will automatically detect and add any new artifact to the Artifacts list to be available for you to configure.

Remove Artifacts from Summary Analysis

If there is an Artifact type you do not wish to be included in the summary analysis, simply select it from the **Artifact Analyzed** set and select **Remove**.

At least one artifact type must be enabled within the "Artifact Analyzed" set setting for QVscribe.

Including Artifacts in Summary Analysis

If there are any artifact types that you would like to be included in the QVscribe analysis, simply select them from the **Artifacts Not Analyzed** list and select the **Select for Analysis** button.

Once selected, the module is refreshed in your browser and the QVscribe icon is displayed in the module, the Summary View will include the analysis for the newly added artifact type.

Artifact Analysis is used to know what artifacts need to be analyzed by QVscribe. As modules load additional artifact types will be automatically analyzed and can be enabled and disabled using this feature. **This feature is for DOORS users only.**

ARTIFACT ANALYZED

- Requirement
- Feature

ARTIFACTS NOT ANALYZED

Remove

Select for Analysis

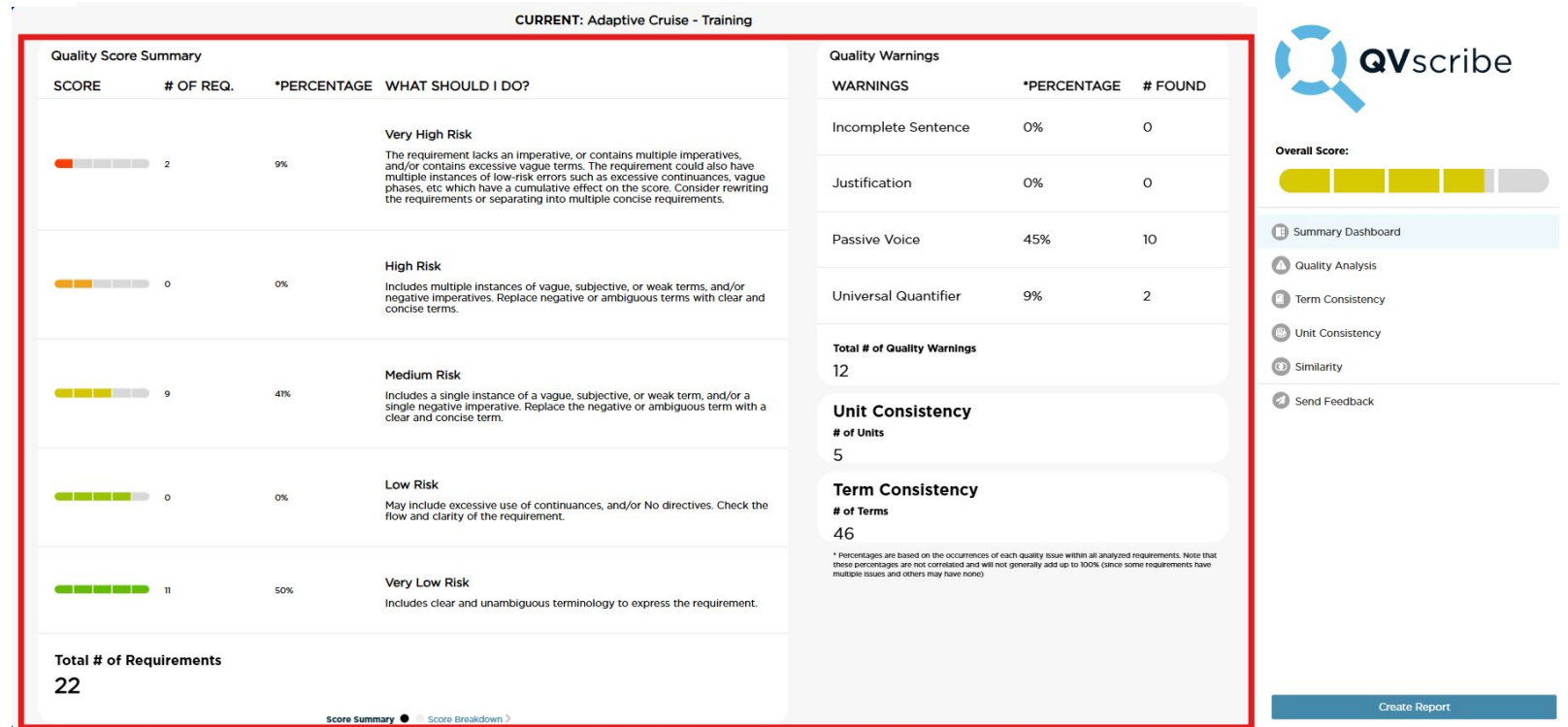
SEND FEEDBACK

Summary View

The QVscribe Summary Dashboard displays all QVscribe results for the analyzed requirements in the Projects or Modules.

The Summary Dashboard is completely clickable making it easier to navigate to the information that is most important to your workflow.

At the bottom of the Summary Dashboard, you can select the icon to change from the Score Summary (Page 1) to the Score Breakdown (Page 2).



The Score Summary Page (Page 1) displays all analyzed requirements within the Projects or Modules. Each requirement will be categorized according to their level of risk. Selecting any of the score bars will navigate users to the Quality Analysis section filtered for the selected quality score.

The Quality Warnings sections displays the requirements that have issues that QVscribe recommends additional attention or review. Selecting any of the warning categories will navigate users to the Quality Analysis section filtered for the selected Quality Warning.

Summary View

The Score Breakdown Page (Page 2) displays the same requirements from the Score Summary Page broken down by specific quality issues to help you better resolve your requirements problems.

CURRENT: Adaptive Cruise - Training

QUALITY ISSUES	*PERCENTAGE	# FOUND
Cross-Referencing Pronouns	5%	1
Excessive Continuances	0%	0
Immeasurable Qualifiers	0%	0
Multiple Imperatives	0%	0
Negative Imperatives	5%	1
No Directives	0%	0
No Imperatives	9%	2
Non-Specific Temporal Words	14%	3
Optional Escape Clauses	5%	1
Optional Open-Ended Clauses	0%	0
Superfluous Infinitives	18%	4
Vague Phrases	5%	1
Total # of Requirements		22


Quality Warnings

WARNINGS	*PERCENTAGE	# FOUND
Incomplete Sentence	0%	0
Justification	0%	0
Passive Voice	45%	10
Universal Quantifier	9%	2
Total # of Quality Warnings		12

Unit Consistency
of Units
5

Term Consistency
of Terms
46

* Percentages are based on the occurrences of each quality issue within all analyzed requirements. Note that these percentages are not correlated and will not generally add up to 100% (since some requirements have multiple issues and others may have none)

Overall Score: 

- Summary Dashboard
- Quality Analysis
- Term Consistency
- Unit Consistency
- Similarity
- Send Feedback

Create Report

The Navigation Menu (in yellow) provides easy access to all QVscribe Analyses. Selecting any section from the navigation pane will display the associated analysis views available in the summary view. This section also includes the overall score for all analyzed requirements in Projects or Modules.

Editing/Authoring in the Summary View

You will have the ability to edit/author requirements within the Summary view. This can be done when you open a requirement within the Quality Analysis.

CURRENT: Adaptive Cruise - Training

I.D.	REQUIREMENT	SCORE	WARNING
DP-550	If the car in front of the subject car speeds up then the system will adjust to a higher speed, provided the car has not reached the set speed	██████████	
DP-532	The distance threshold will be displayed for the driver	██████████	⚠ 1
DP-543	The driver will be able to use buttons on the steering wheel to change the following distance whenever the system is engaged.	██████████	⚠ 1
DP-531	The system will maintain the following distance without exceeding the maximum speed set by the user whenever a front vehicle is detected	██████████	⚠ 1
DP-542	The driver will be able to use buttons on the steering wheel to set and change the maximum speed whenever the system is engaged	██████████	⚠ 1
DP-541	The system will work from 0 kph to 140 kph	██████████	
DP-552	The set speed threshold will be displayed for the driver	██████████	⚠ 1
DP-540	If engaged, the system should disengage and warn the driver using a status light in the event of a system malfunction	██████████	⚠ 1
DP-551	The vehicle will not exceed 85 MPH while using the FSRACC feature	██████████	
DP-536	The driver has the ability to override/disable the system at all times	██████████	⚠ 1
DP-547	If the controller fails, then the system shall disengage within 0.2ms	██████████	
DP-535	The system will work from 0 kph to 137 kph	██████████	
DP-546	The system will have a default following distance of 1.5 s in place after the driver chooses to engage the FSRACC system	██████████	
DP-534	The cruise control system shall record data from the can (Controller Area Network)	██████████	
DP-545	The following distance will be computed in seconds behind the forward vehicle (i.e. 260 feet of following distance at 60 mph (88 feet per second) is about 3 seconds)	██████████	⚠ 1
DP-533	The system will have set following distances available to the user that allows the vehicle to slow down and stop if the front vehicle does	██████████	
DP-544	If the camera fails, then the system shall disengage within 0.3ms	██████████	
DP-539	The system will work alongside other systems present in the car	██████████	
DP-538	When the driver taps the accelerator, the system is temporarily disengaged while the driver accelerates the car. The system will re-engage at the previously set speed once the accelerator is no longer depressed	██████████	⚠ 2

QVscribe

Overall Score: ██████████

- Summary Dashboard
- Quality Analysis
- Term Consistency
- Unit Consistency
- Similarity
- Send Feedback

Create Report

Once you select a requirement, you will see an icon right beside the requirement. You can click this icon to edit/author the requirement.

← Return to Quality Review

REQUIREMENT I.D. : 5032

The driver has the ability to override/disable the system at all times

Editing/Authoring in the Summary View

This icon will bring you to your authoring/editing window. Click the edit button, then you can edit the text within DOORS Next or click the QVscribe icon to edit within QVscribe.

The screenshot shows a software interface with a light blue header bar. The header contains a back arrow, the text "In module: 5019 Copy of Adaptive Cruise BK.docx", and a red box highlighting a blue "Edit" button. Below the header, a list item "5032 The driver has the ability to override/disable the system at all times" is shown. To the right, an "Overview" panel displays a blue circular icon, the text "5032: <The driver has the ability to override/disable the system at all times>", and "No Tags Defined".

Below this, a second screenshot shows the authoring view. The text "5032 <The driver has the ability to override/disable the system at all times>" is now in a text box. To the right of the text box is a "Cancel" button. Below the text box is a rich text editor toolbar with options for "Normal", "Arial", "11", "B", "I", "U", "S", "X", "X'", "Edit", "Insert", and various alignment and list icons. The text "The driver has the ability to override/disable the system at all times" is displayed below the toolbar.

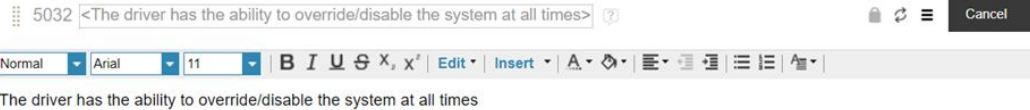
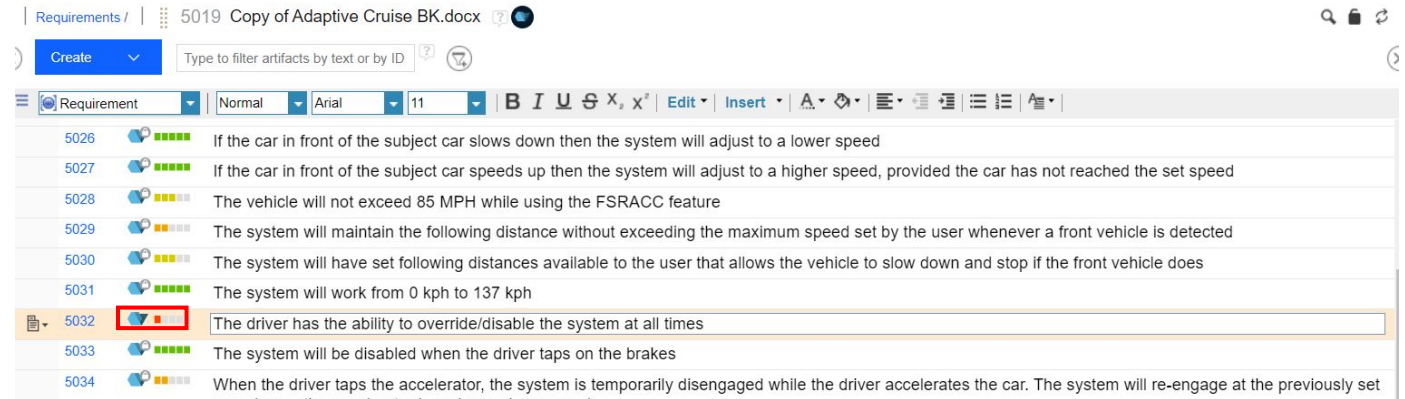
This brings you to the authoring view, where you can make changes/edits. The QVscribe analysis will update your changes showing you whether your score is improving.



Authoring View

While viewing a requirement/artifact, when Edit mode is active, you can access QVscribe authoring view.

Within a module, you can access authoring view by clicking edit content of the artifact. You will then see the QVscribe icon and score in the left-hand side of the artifact. Click the QVscribe icon to open QVscribe authoring view for this requirement.



Within an artifact and while in edit mode, you can access the authoring view by clicking on the QVscribe icon and score in the bottom right-hand corner.



Authoring View

Now, that you are in the QVscribe authoring view you can make changes directly in the text. QVscribe will automatically rerun the Quality Analysis within 2 seconds of any changes you make to the text. The QVscribe score will update accordingly. Once the text updates are complete, simply close the QVscribe authoring view to update the text in the requirement.

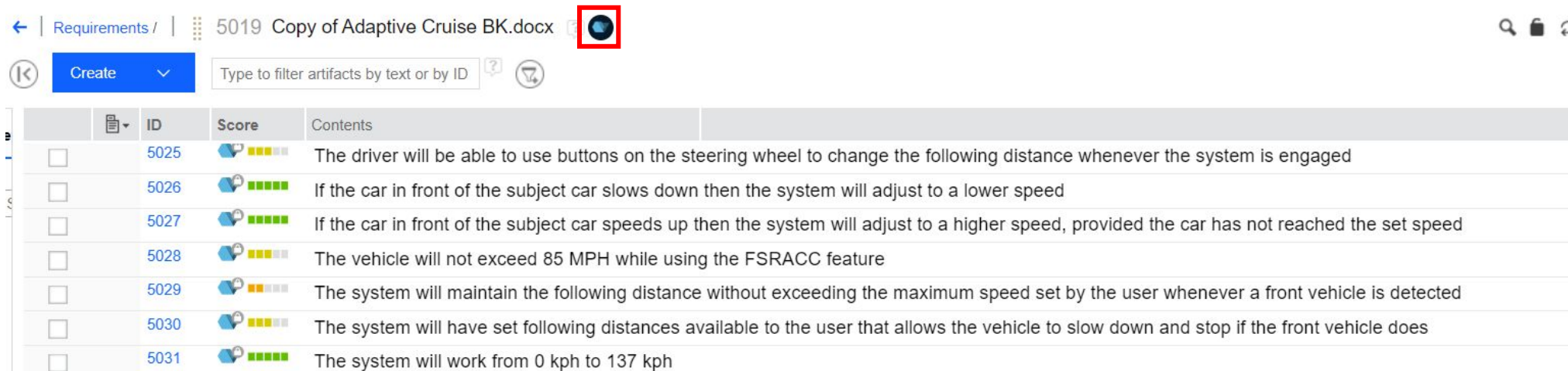
Note: QVscribe will not commit any changes to DOORS Next. It will be important to complete your changes in DOORS Next as you normally would.

The screenshot displays the QVscribe authoring interface. On the left, a requirement text is shown: "REQUIREMENT I.D. : CSP-535" followed by "The driver has the ability to override/disable the system at all times." The word "all" is underlined in yellow. On the right, a sidebar contains a list of alerts: "All Alerts" (3), "QUALITY SCORE | NO IMPERATIVES", "QUALITY WARNING | UNIVERSAL QUANTIFIER", and "EARS | NON COMPLIANT". A red box highlights the alert list. Below the alert list, a yellow box highlights the "Filter Menu" which includes a "Quality Score" progress bar, a "No Imperatives" button (1), "All Alerts" (3), "Warnings" (1), "EARS" (Ubiquitous, Non-conformi...), "Insert EARS Template", and "Send Feedback".

You can select any of the alerts for additional information, support and guidance on editing your requirement. The Filter Menu (in yellow) allows users to filter the specific alerts for the selected requirement.

Quality Analysis

To view the QVscribe Quality Analysis for your selected Project or Module, open the Summary Dashboard by clicking on the QVscribe icon.



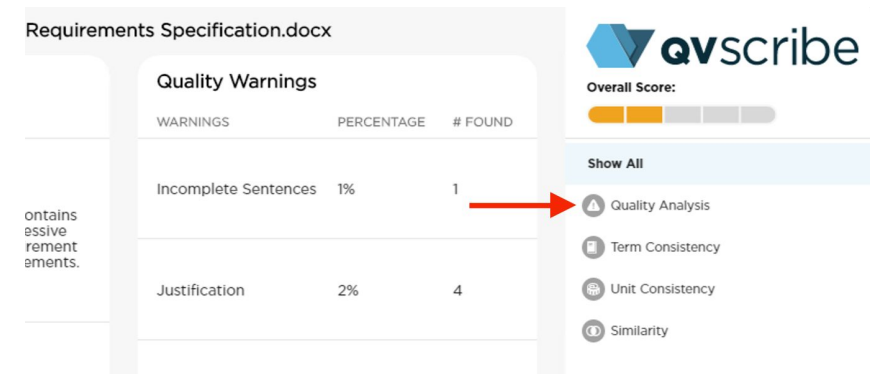
Requirements / 5019 Copy of Adaptive Cruise BK.docx

Create

Type to filter artifacts by text or by ID

ID	Score	Contents
5025		The driver will be able to use buttons on the steering wheel to change the following distance whenever the system is engaged
5026		If the car in front of the subject car slows down then the system will adjust to a lower speed
5027		If the car in front of the subject car speeds up then the system will adjust to a higher speed, provided the car has not reached the set speed
5028		The vehicle will not exceed 85 MPH while using the FSRACC feature
5029		The system will maintain the following distance without exceeding the maximum speed set by the user whenever a front vehicle is detected
5030		The system will have set following distances available to the user that allows the vehicle to slow down and stop if the front vehicle does
5031		The system will work from 0 kph to 137 kph

Within the Summary Dashboard, select Quality Analysis from the right-hand Navigation Menu.



Requirements Specification.docx

Quality Warnings

WARNINGS	PERCENTAGE	# FOUND
Incomplete Sentences	1%	1
Justification	2%	4

Overall Score:

Show All

- Quality Analysis
- Term Consistency
- Unit Consistency
- Similarity

Quality Analysis

QVscribe will present the Quality Analysis for each of the requirements based on the order they are displayed in your Project or Module. You may navigate to any of the individual requirements to see their detailed analysis. The 5-level scoring gives you a succinct picture of which requirements need the most attention and which ones adhere to best practices.

At the top of this view are 2 tools that will help you refine the list of requirements to focus on the areas you want to look further:

1. The Filter Requirements tool
2. The Sort Order tool

CURRENT: CSPProject.pdf

Number of Requirements: 282 | Requirements Shown: 282 | Filter Requirements: No Filter | Order of Appearance: Order of Appearance

I.D.	REQUIREMENT	SCORE	WARNING
CSP-399	API interface shall function with Toyota vehicles	5/5	
CSP-398	API interface shall function with Honda vehicles.	5/5	
CSP-397	DrivePilot shall provide Software Throttle interface on DrivePilot Command Controller (DCC)	5/5	
CSP-292		2/5	
CSP-195	This failure mode applies to complete failure of the DrivePilot Command Controller, its interfaces and consoles. The effects of the DCC systematically shutting down would mean that all servos will stop working competely.	5/5	1
CSP-408	Accelerator override servo disengages if user taps on the accelerator or engages cruise control.	2/5	
CSP-407	DrivePilot shall provide a Toyota throttle/accelerator override servo that will control the accelerator cable independently of manual mechanical operations.	2/5	
CSP-406	Accelerator override servo disengages if user taps on the accelerator or engages cruise control.	2/5	
CSP-405	DrivePilot shall provide a Honda replacement throttle/accelerator servo on vehicles that do not have a mechanical cable.	5/5	1
CSP-402	Throttles must be either mechanical or electrical.	3/5	
CSP-401	Accelerator override servo disengages if user taps on the accelerator or engages cruise control.	2/5	
CSP-400	DrivePilot shall provide a throttle/accelerator override servo that will control the accelerator cable independently of manual mechanical operations.	2/5	
CSP-419	The SOS will have in-dash mount option.s	5/5	
CSP-418	The braking subcontroller will receive information from the BLC and disengage if the user presses the brake pedal manually.	5/5	
CSP-417	The Braking Software subcontroller shall interface with the DCC. It will provide directives to the BLC.	2/5	
CSP-416	Unlike mechanisms with software-based API controls available, the BLC shall be mechanical only.	5/5	
CSP-415	DrivePilot shall implement a Braking Lever Control (BLC) for all vehicles and all applications.	5/5	1

Overall Score: [Progress Bar]

Summary Dashboard | Quality Analysis | Term Consistency | Unit Consistency | Similarity | Send Feedback

Create Report

Quality Analysis

The Filter Requirements tool provides a drop-down list that allows you to display requirements based on the 1-5 score calculated by QVscribe or Quality Issues.

CURRENT: CSProject.pdf

Number of Requirements	Requirements Shown
84	84
I.D.	REQUIREMENT
CSP-537	If the car in front of the subject car
CSP-534	If the car in front of the subject car has not reached the set speed.
CSP-540	The system will maintain the follow whenever a front vehicle is detected
CSP-667	The distance threshold will be disp
CSP-666	The system will re-engage at the pre
CSP-665	The system will have indicator light cruise control.

Filter Requirements

- Five Score
- Warning
- Cross-Referencing Pronouns
- Excessive Continuances
- Immeasurable Qualifiers
- Incomplete Sentences
- Justification

CURRENT: CSProject.pdf

ments

Order of Appearance

- Low to High Score
- High to Low Score
- Warning Count

then the system will adjust to a lower speed.

then the system will adjust to a higher speed, provided the car

without exceeding the maximum speed set by the user

The Sort Order tool provides a drop-down list of several sorting options based on the requirements order, quality score, or the number of warnings associated.

Quality Analysis

When viewing the details of any analyzed requirement in QVscribe that has one or more alerts, you can select any alert to see more detail on the specific alert.

REQUIREMENT I.D. : CSP-535
The driver has the ability to override/disable the system at all times.

All Alerts

- QUALITY SCORE | NO IMPERATIVES**
Enhance requirement completeness by including an acceptable imperative such as "shall", "must", and "will" in between the entity responsible and the action that is required.
Incorrect Example While in Daylight Mode, when the Ambient Light Reading measures below 400 lx the Control System goes into Night Mode.
Correct Example While in Daylight Mode, when the Ambient Light Reading measures below 400 lx the Control System shall enter Night Mode.
- QUALITY WARNING | UNIVERSAL QUANTIFIER**
- EARS | NON COMPLIANT**

Quality Score:
No Imperatives 1

All Alerts 3

- Warnings 1
- EARS Ubiquitous, Non-conformi...
- Insert EARS Template
- Send Feedback

In the example above, the quality alert for “No Imperatives” has been generated. Selecting the alert will then highlight some guidance on how to resolve this problem along with an incorrect and correct example of the problem.

By default, all alerts will be displayed. Alerts can be filtered by using the right-most menu. This allows the user to focus on one specific type of alert, hiding all the others.

Consistency Analysis

QVscribe's Consistency feature includes 2 types of analyses: units and terms. You access these analyses in the Navigation Menu of the Summary Dashboard.

CURRENT: CSProject.pdf

Quality Score Summary

SCORE	# OF REQ.	*PERCENTAGE	WHAT SHOULD I DO?
	16	19%	Very High Risk The requirement lacks an imperative, or contains multiple imperatives, and/or contains excessive vague terms. The requirement could also have multiple instances of low-risk errors such as excessive continuances, vague phases, etc which have a cumulative effect on the score. Consider rewriting the requirements or separating into multiple concise requirements.
	3	4%	High Risk Includes multiple instances of vague, subjective, or weak terms, and/or negative imperatives. Replace negative or ambiguous terms with clear and concise terms.
	20	24%	Medium Risk Includes a single instance of a vague, subjective, or weak term, and/or a single negative imperative. Replace the negative or ambiguous term with a clear and concise term.
	0	0%	Low Risk May include excessive use of continuances, and/or No directives. Check the flow and clarity of the requirement.
	45	54%	Very Low Risk Includes clear and unambiguous terminology to express the requirement.

Total # of Requirements
84

Score Summary ● Score Breakdown >

Quality Warnings

WARNINGS	*PERCENTAGE	# FOUND
Incomplete Sentences	1%	1
Justification	0%	0
Passive Voice	58%	49
Universal Quantifier	11%	9

Total # of Quality Warnings
59

Unit Consistency

of Units
3

Term Consistency

of Terms
155

* Percentages are based on the occurrences of each quality issue within all analyzed requirements. Note that these percentages are not correlated and will not generally add up to 100% (since some requirements have multiple issues and others may have none)

QVscribe

Overall Score:

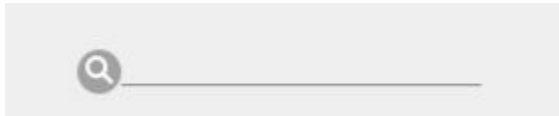
- Summary Dashboard
- Quality Analysis
- Term Consistency**
- Unit Consistency
- Similarity
- Send Feedback

Create Report

Term Consistency

All found nouns and noun phrases are displayed in the Term Consistency list, along with a total count and number of terms similar to it.


You can search for a specific term by entering text beside the magnifying glass icon.



CURRENT: CSProject.pdf

Number of Terms: 155 | Terms Shown: 155 | Search: | Order: Alphabetical Order

	OCCURRENCES	# OF SIMILAR	HIGHEST % MATCH
A			
ability	1	0	0%
accelerator	2	0	0%
aerodynamic control effectors	2	0	0%
aircraft	2	0	0%
airplane	1	1	70.71%
airplane flaps	1	1	70.71%
alarm	1	0	0%
amount	1	0	0%
Applications	1	0	0%
ATC system	1	7	70.71%
B			
block valve	1	0	0%
brakes	1	0	0%
button	3	2	89.44%
buttons	2	2	89.44%
bypass	1	0	0%

Overall Score: 

- Summary Dashboard
- Quality Analysis
- Term Consistency
- Unit Consistency
- Similarity
- Send Feedback

Create Report

Terms can be organized by selecting the drop-down beside the “Alphabetical Order” text in the top right. The options are:

- Alphabetical Order: The default option, displays terms alphabetically
- Most Occurrences: Displays terms in order of the number of times they appear from highest number of occurrences to least number of occurrences
- Most Similar: Displays terms in order of the number of similar terms, from the highest number of similar terms to the least number of similar terms
- Highest % Match: Displays terms based on the highest % match to other identified terms



Term Consistency

The terms in the Consistency section can be explored by selecting any term to show all requirements where that term appears, as well as a list of similar terms and the %-similarity. Each of these similar terms can be expanded to show the requirements where it appears. This helps rapidly verify that these similar terms are valid and reside in the correct requirements.

The screenshot displays the QVscribe interface for analyzing term consistency. The main section shows a list of requirements for the term 'control system' from the document 'CSPProject.pdf'. Below this, a 'Similar Terms' table lists related terms with their occurrence counts, the number of similar terms, and their highest percentage match. A right-hand sidebar provides navigation options and an overall score indicator.

CURRENT: CSPProject.pdf

control system

Overall Score:

Summary Dashboard
Quality Analysis
Term Consistency
Unit Consistency
Similarity
Send Feedback

Create Report

I.D.	REQUIREMENT TEXT
CSP-677	The control system shall prevent engine overspeed while the machine is engaged.
CSP-692	While the aircraft is on the ground, when reverse thrust is commanded, the control system shall enable deployment of the thrust reverser.
CSP-691	Where airplane flaps are enabled, while the aircraft is on the ground, when the signal to take off is given, the control system shall indicate a green light.
CSP-714	If the machine is turned on and the lights are switched off, the control system shall disengage.
CSP-725	If the car in front of the subject vehicle slows down then the control system will adjust to a lower speed.
CSP-708	If the car, in front of the subject vehicle slows down then the control system will adjust to a lower speed.

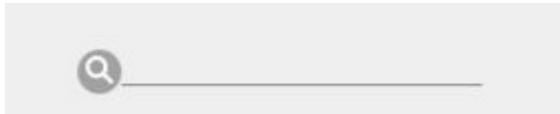
Similar Terms

	OCCURRENCES	# OF SIMILAR	HIGHEST % MATCH
A			
ATC system	1	7	70.71%
C			
cruise control system	1	2	79.47%
S			
signal system	1	5	82.92%
system	28	10	63.25%

Unit Consistency

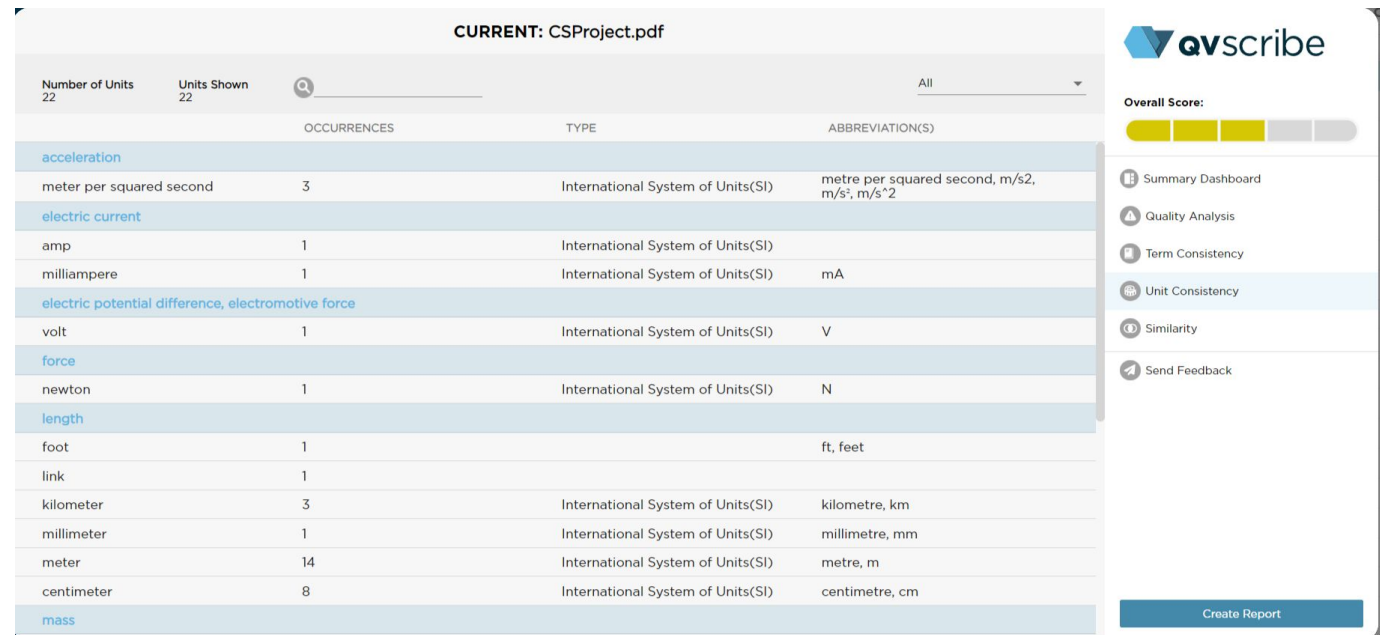
Unit Consistency displays all units detected, along with their type categorization and total count. Each unit in the list can be expanded to show the requirements where it was found. This helps ensure that the right unit is in the right requirement and that there is consistency in the system of units used throughout the document (i.e. metric or imperial).

You can search for a specific unit by entering text beside the magnifying glass icon.



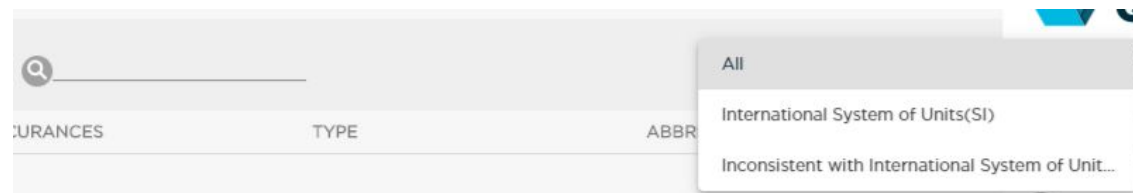
Units can be organized by selecting the drop-down beside the “All” text in the top right. The options are:

- All: The default option, displays all the identified units
- International System of Units (SI): Displays identified SI units
- Inconsistent with International System of Units (SI): Displays identified units that are not SI units(imperial)



The screenshot shows a report titled "CURRENT: CSProject.pdf" with a search bar and a dropdown menu set to "All". The report displays a table of units with columns for "Number of Units", "Units Shown", "OCCURRENCES", "TYPE", and "ABBREVIATION(S)". The table is organized into sections by unit type: acceleration, electric current, electric potential difference, electromotive force, force, length, and mass. A sidebar on the right shows the "Overall Score" and a navigation menu with options like "Summary Dashboard", "Quality Analysis", "Term Consistency", "Unit Consistency", "Similarity", and "Send Feedback". A "Create Report" button is at the bottom right.

Number of Units	Units Shown	OCCURRENCES	TYPE	ABBREVIATION(S)
22	22			All
acceleration				
		3	International System of Units(SI)	metre per squared second, m/s2, m/s ²
electric current				
		1	International System of Units(SI)	
		1	International System of Units(SI)	mA
electric potential difference, electromotive force				
		1	International System of Units(SI)	V
force				
		1	International System of Units(SI)	N
length				
		1		ft, feet
		1		
		3	International System of Units(SI)	kilometre, km
		1	International System of Units(SI)	millimetre, mm
		14	International System of Units(SI)	metre, m
		8	International System of Units(SI)	centimetre, cm
mass				



Unit Consistency


Selecting any unit in the list will display all the requirements that include that unit with the unit highlighted.

CURRENT: CSPProject.pdf

[Return to Unit Review](#)

meter

I.D.	REQUIREMENT	
CSP-561 The Lunar Exploration Light Rover shall accelerate back up to 15 km/h within ten seconds of stopping, and shall initiate each stop within ten seconds of reaching 15 km/h. For each of the five stops, the Lunar Exploration Light Rover shall stop within a distance of 4.2 m . Rationale: This is similar to brake fade tests performed on earth, and is necessary for safe operations. This will give the analog rover an ability to resist temperature-related brake fade in a manner similar to that defined in CMVSS 135. Note, maximum speed is 80% of the maximum, consistent with the CMVSS 135 approach.	▼
CSP-573 The range to the edge of the workspace should be no less than 2m .8. Zoom: The Lunar Exploration Light Rover imaging shall, upon command, change the field of view in a range of 2 degrees to 30 degrees diagonal dimension, in steps of 1 degree maximum.Rationale: Zoom capability is in general to support detailed imaging of distant targets while also supporting driving and other close-by operations which require a wide field...	▼
CSP-585	[EC-LMR-FNC-052] Sensor Height: Basic digital terrain mapping and terrain imaging from at least one imager shall be done from an adequate height to see over obstacles of 1m height. Comment: The precise height is left to the contractor to optimize for the requirement to see over obstacles...	▼
CSP-552 The intent is to permit a variety of running gear solutions, be they wheels, tracks or other.Comment: For reference, MMP is defined and calculated for wheeled vehicles as follows: $MMP = (K' \times W) / \{ 2m \times b^{0.85} \times d^{1.15} \times [\Delta/d]^{0.5} \}$ where $K' = 1.83$ (axle factor: 2 axles, both driven) W = maximum gross vehicle weight, kNm = number of axles b = tire width, unladen, m = tire diameter, unladen, $m\Delta$ = tire deflection under vehicle weight W , ma) For the purpose of standardization, tire diameter, d , shall be the diameter taken at the base of the tread...	▼
CSP-586 the Advanced Vision Systems and science instruments) at 2m above ground level...	▼
CSP-597	[EC-LMR-PRF-340] Absolute localization: The Lunar Exploration Light Rover shall determine its absolute location to within 100m . Rationale: Design choice by CSA based on scenario needs...	▼
CSP-564	[EC-LMR-PRF-060] Ground Clearance: The Lunar Exploration Light Rover shall be able to pass over an obstacle with a height of	▼



Overall Score:

- Summary Dashboard
- Quality Analysis
- Term Consistency
- Unit Consistency**
- Similarity
- Send Feedback

Create Report

Similarity Analysis

The Similarity Analysis displays which requirements are similarly written and how closely they match. You access the Similarity Analysis in the Navigation Menu of the Summary Dashboard.

The Similarity Analysis can be used to identify possible duplications and/or contradictions across requirements.

The requirements can be organized by selecting the drop-down beside 'Order of Appearance' text in the top right. The options are:

- Order of Appearance: The default option, displays requirements in the order that they appear in the Project or Module
- Number of Similar: Displays requirements that have the highest number of similar requirements to the least number of similar requirements
- Highest % Match: Displays requirements based on the highest % match to other requirements

CURRENT: CSProject.pdf

Number of Requirements: 229

Order of Appearance

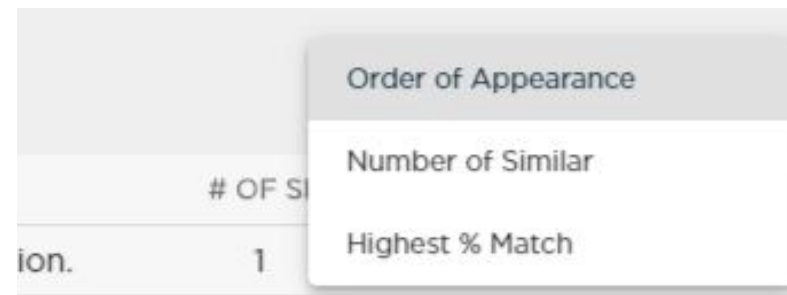
ID.	REQUIREMENT	# OF SIMILAR	HIGHEST % MATCH
CSP-399	API interface shall function with Toyota vehicles	1	85.11%
CSP-398	API interface shall function with Honda vehicles.	1	85.11%
CSP-397	DrivePilot shall provide Software Throttle interface on DrivePilot Command Controller (DCC)	4	58.27%
CSP-195	This failure mode applies to complete failure of the DrivePilot Command Controller, its interfaces and consoles. The effects of the DCC systematically shutting down would mean that all servos will stop working completely.	1	51.37%
CSP-408	Accelerator override servo disengages if user taps on the accelerator or engages cruise control.	2	100%
CSP-407	DrivePilot shall provide a Toyota throttle/accelerator override servo that will control the accelerator cable independently of manual mechanical operations.	3	98.25%
CSP-406	Accelerator override servo disengages if user taps on the accelerator or engages cruise control.	2	100%
CSP-405	DrivePilot shall provide a Honda replacement throttle/accelerator servo on vehicles that do not have a mechanical cable.	2	60.92%
CSP-401	Accelerator override servo disengages if user taps on the accelerator or engages cruise control.	2	100%
CSP-400	DrivePilot shall provide a throttle/accelerator override servo that will control the accelerator cable independently of manual mechanical operations.	3	98.25%
CSP-419	The SOS will have in-dash mount option.s	1	64.78%
CSP-418	The braking subcontroller will receive information from the BLC and disengage if the user presses the brake pedal manually.	2	70.55%
CSP-417	The Braking Software subcontroller shall interface with the DCC. It will provide directives to the BLC.	2	87.44%
CSP-415	DrivePilot shall implement a Braking Lever Control (BLC) for all vehicles and all applications.	1	75%
CSP-413	The SOS will have an under-hood, and in-dash mount option. It shall mount directly to the steering shaft.	2	64.78%
CSP-412	The steering subcontroller will receive information from the SOS and disengage if the user grabs the wheel to override the SOS.	5	70.55%

Overall Score: [Progress Bar]

Navigation Menu:

- Summary Dashboard
- Quality Analysis
- Term Consistency
- Unit Consistency
- Similarity**
- Send Feedback

Create Report



Similarity Analysis

Expanding a requirement lists its similar requirements on the right, along with a percentage of how similar they are. Clicking a similar requirement in the list will then display the clicked-on requirement below the original with the differences highlighted in light purple.

[Return to Similarity Review](#)

REQUIREMENT I.D. : CSP-537 ⓘ

If the car in front of the subject car slows down then the system will adjust to a lower speed.

COMPARED REQUIREMENT I.D. : CSP-534 ⓘ

If the car in front of the subject car speeds up then the system will adjust to a higher speed, provided the car has not reached the set speed.

10 Filtered Alerts

- SIMILARITY | 81% REQUIREMENT FOUND
- SIMILARITY | 100% REQUIREMENT FOUND
- SIMILARITY | 91% REQUIREMENT FOUND
- SIMILARITY | 67% REQUIREMENT FOUND
- SIMILARITY | 92% REQUIREMENT FOUND
- SIMILARITY | 92% REQUIREMENT FOUND
- SIMILARITY | 80% REQUIREMENT FOUND
- SIMILARITY | 81% REQUIREMENT FOUND
- SIMILARITY | 90% REQUIREMENT FOUND
- SIMILARITY | 57% REQUIREMENT FOUND

QVscribe

Quality Score:

All Alerts **11**

- SIMILARITY** 10
- EARS Unwanted Behaviors, Non...






[Send Feedback](#)

Generate PDF Report

A PDF report can be generated with all the information in the QVscribe Summary Dashboard by selecting Generate Report in the right-hand corner.

CURRENT: CSProject.pdf

Quality Score Summary

SCORE	# OF REQ.	*PERCENTAGE	WHAT SHOULD I DO?
	131	46%	Very High Risk The requirement lacks an imperative, or contains multiple imperatives, and/or contains excessive vague terms. The requirement could also have multiple instances of low-risk errors such as excessive continuances, vague phases, etc which have a cumulative effect on the score. Consider rewriting the requirements or separating into multiple concise requirements.
	19	7%	High Risk Includes multiple instances of vague, subjective, or weak terms, and/or negative imperatives. Replace negative or ambiguous terms with clear and concise terms.
	48	17%	Medium Risk Includes a single instance of a vague, subjective, or weak term, and/or a single negative imperative. Replace the negative or ambiguous term with a clear and concise term.
	1	0%	Low Risk May include excessive use of continuances, and/or No directives. Check the flow and clarity of the requirement.
	83	29%	Very Low Risk Includes clear and unambiguous terminology to express the requirement.

Total # of Requirements
282

Score Summary ● Score Breakdown >

Quality Warnings

WARNINGS	*PERCENTAGE	# FOUND
Incomplete Sentences	2%	5
Justification	4%	11
Passive Voice	54%	151
Universal Quantifier	20%	56

Total # of Quality Warnings
223


Unit Consistency

of Units
22


Term Consistency

of Terms
1651

* Percentages are based on the occurrences of each quality issue within all analyzed requirements. Note that these percentages are not correlated and will not generally add up to 100% (since some requirements have multiple issues and others may have none)



Overall Score:



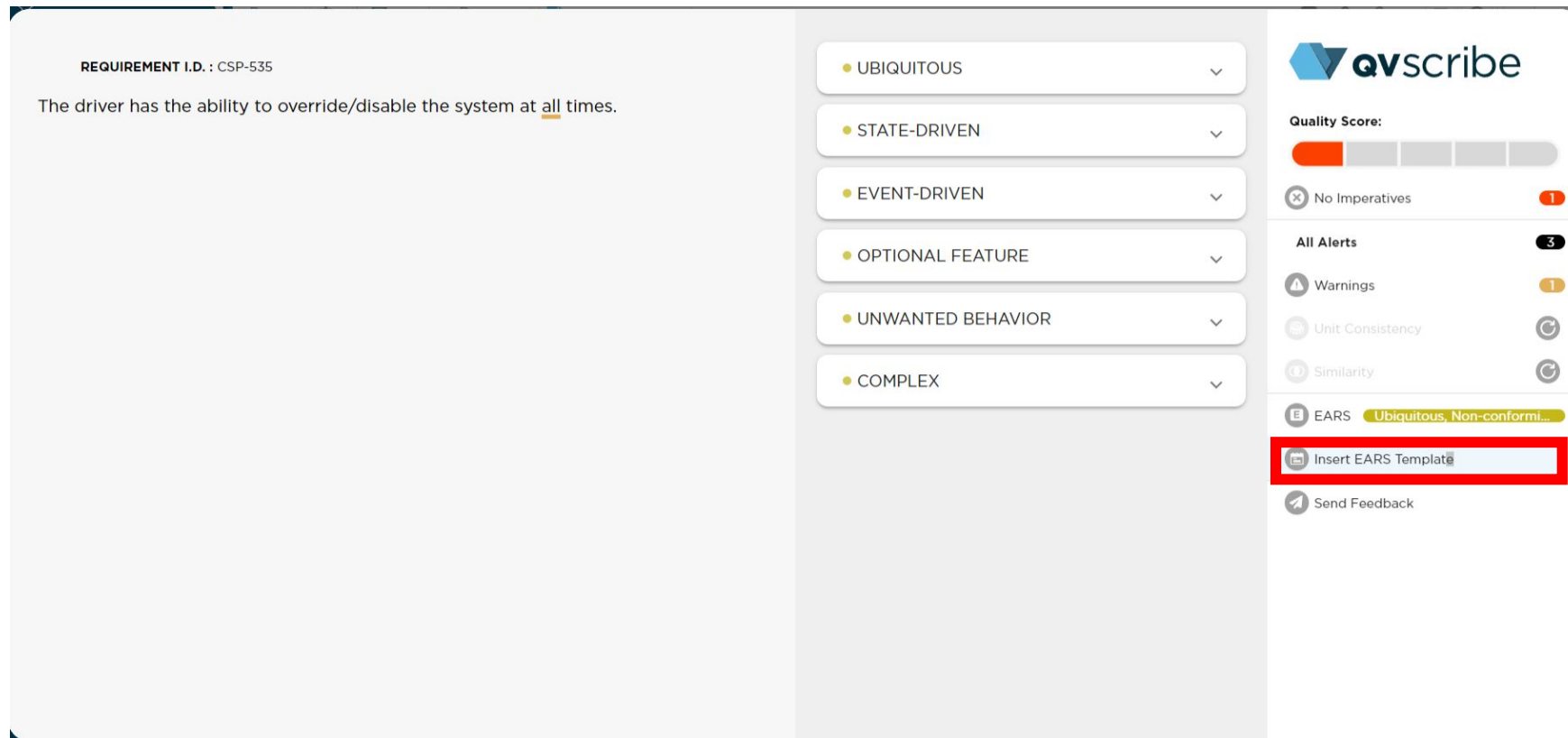
- Summary Dashboard
- Quality Analysis
- Term Consistency
- Unit Consistency
- Similarity
- Send Feedback

Create Report

Easy Approach to Requirements Syntax (EARS) Templates

When writing requirements or working through QVscribe alerts, you can use the Easy Approach to Requirements Syntax (EARS) templates to simplify the writing or re-writing process. The Easy Approach to Requirement Syntax(EARS) is a standard for writing requirements that will improve the quality and consistency of your requirements.

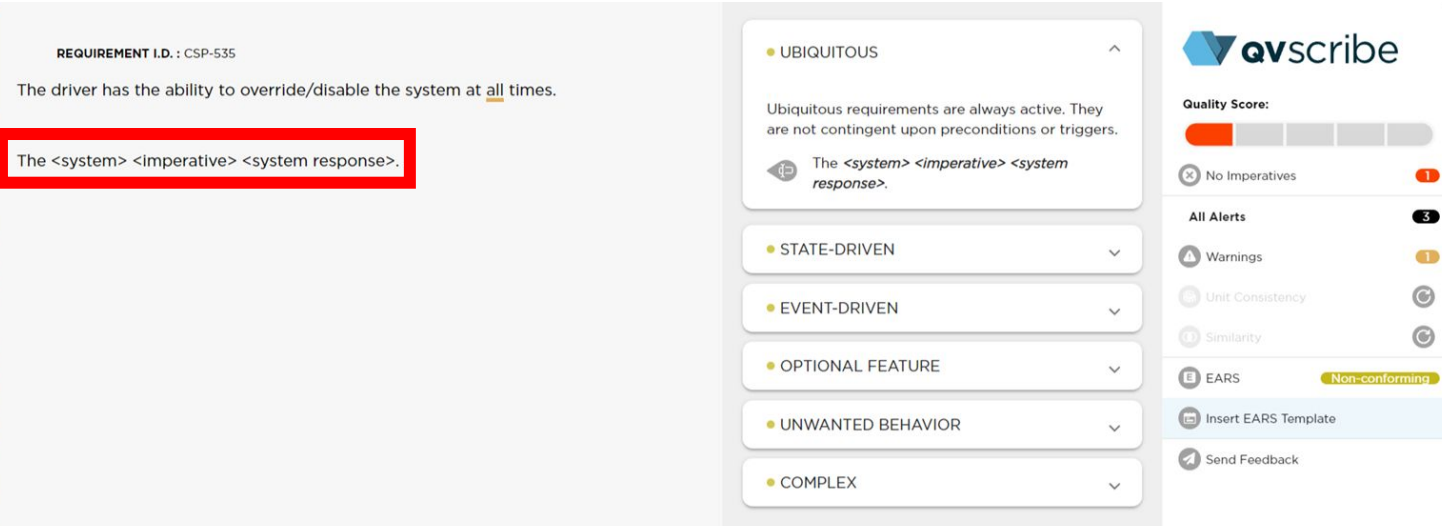
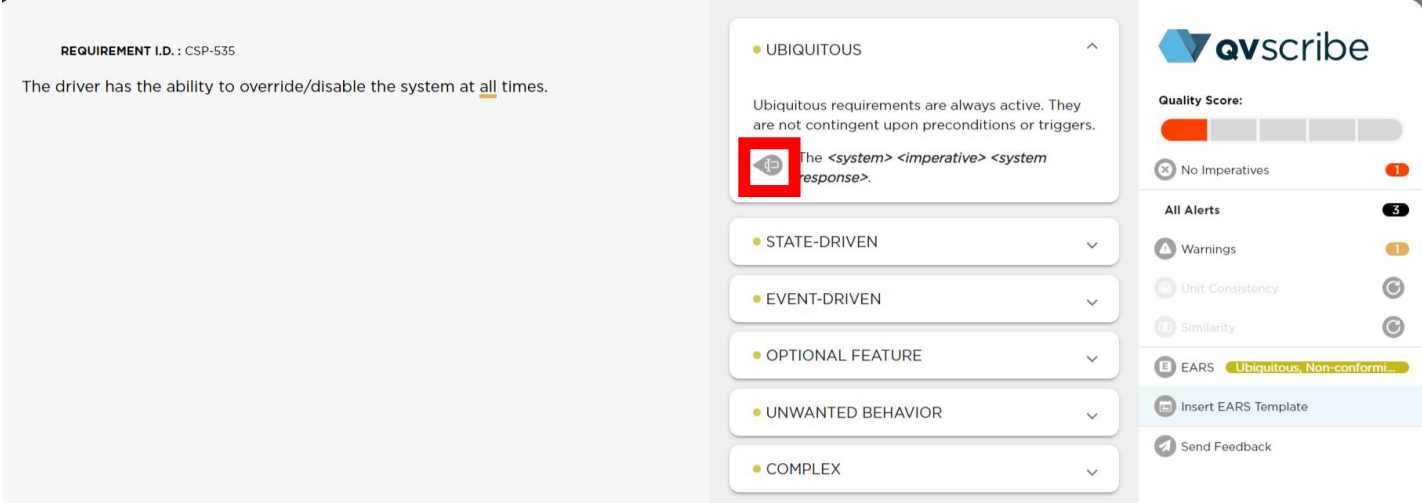
When viewing a requirement in QVscribe's authoring view, you can use EARS Templates by selecting 'Insert EARS Template'.



The screenshot displays the QVscribe authoring interface. On the left, a requirement is shown with the ID 'CSP-535' and the text 'The driver has the ability to override/disable the system at all times.' The word 'all' is highlighted in yellow. The central sidebar contains a list of EARS templates: UBIQUITOUS, STATE-DRIVEN, EVENT-DRIVEN, OPTIONAL FEATURE, UNWANTED BEHAVIOR, and COMPLEX. The right sidebar shows the 'QVscribe' logo, a 'Quality Score' bar, and a list of alerts: 'No Imperatives' (1), 'All Alerts' (3), 'Warnings' (1), 'Unit Consistency', and 'Similarity'. The 'EARS' alert is expanded to show 'Ubiquitous, Non-conformi...'. The 'Insert EARS Template' button is highlighted with a red box.

Easy Approach to Requirements Syntax (EARS) Templates

Select one of the EARS templates made available within QVscribe. By clicking on any of the options listed, the full template and explanation for this EARS Template will be shown. Once you have selected the template you would like to insert, click the grey icon to insert it into your requirement.

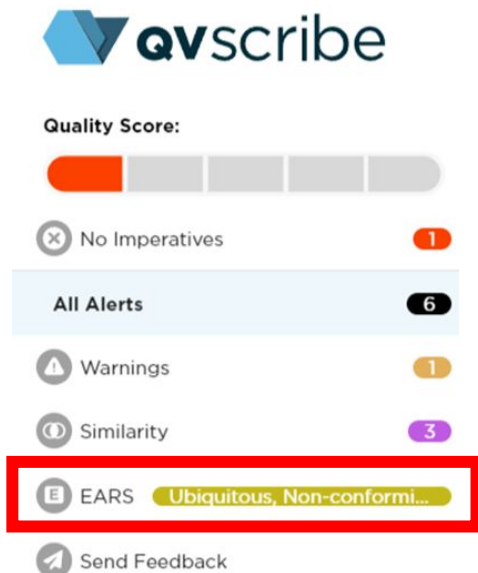


Once the template has been added to the requirement section, you are able to modify it freely. After modification, QVscribe will check for conformance with EARS Templates.

Easy Approach to Requirements Syntax (EARS) Templates

When viewing a requirement in the Quality Analysis, QVscribe will automatically detect if a requirement is compliant with the EARS standard. The identification of a requirement's compliance with the EARS standard will be displayed in the Alert Column.

Selecting the Alert will provide an expanded view that includes additional information about compliance with the EARS format.



QVscribe

Quality Score:

No Imperatives 1

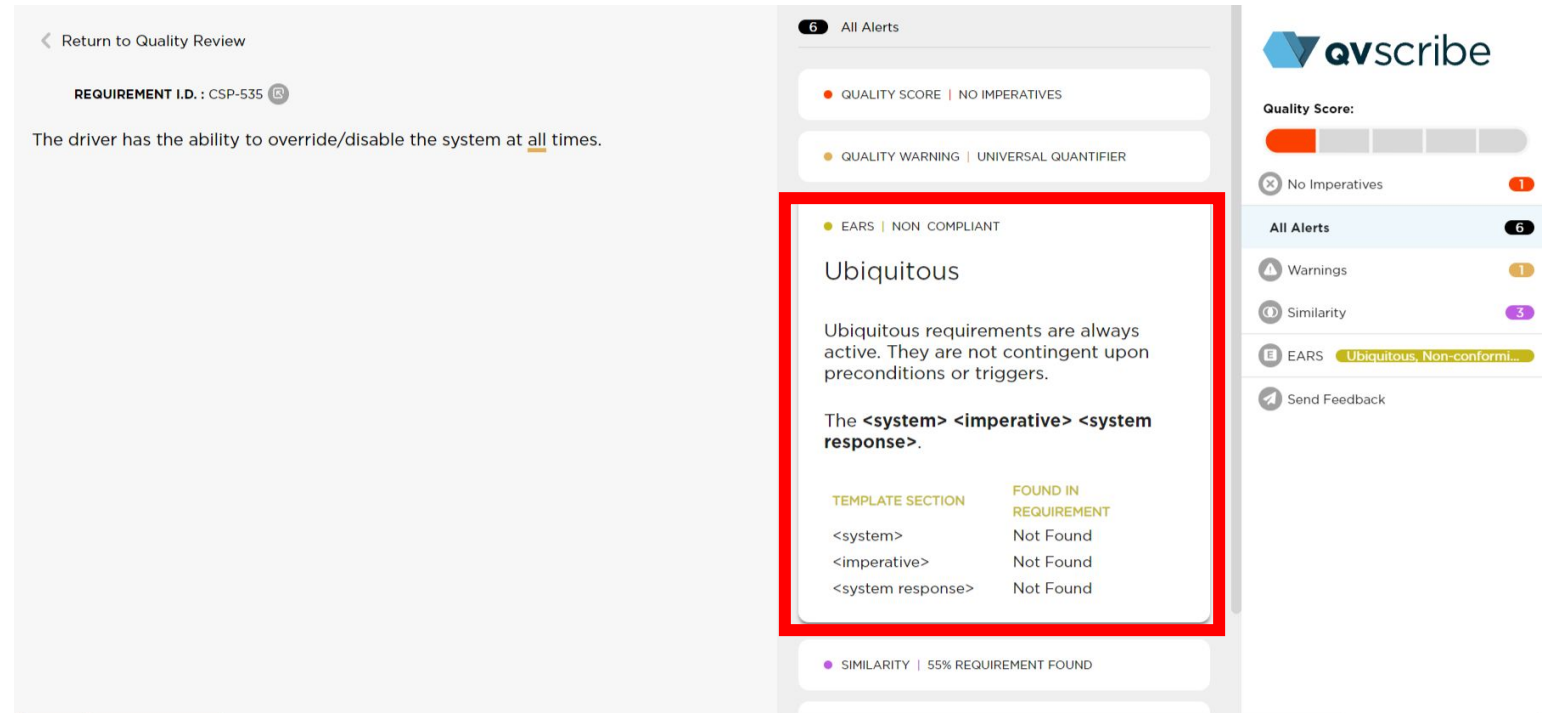
All Alerts 6

Warnings 1

Similarity 3

EARS Ubiquitous, Non-conformi...

Send Feedback



Return to Quality Review

REQUIREMENT I.D.: CSP-535

The driver has the ability to override/disable the system at all times.

All Alerts 6

- QUALITY SCORE | NO IMPERATIVES
- QUALITY WARNING | UNIVERSAL QUANTIFIER
- EARS | NON COMPLIANT**

Ubiquitous

Ubiquitous requirements are always active. They are not contingent upon preconditions or triggers.

The <system> <imperative> <system response>.

TEMPLATE SECTION	FOUND IN REQUIREMENT
<system>	Not Found
<imperative>	Not Found
<system response>	Not Found

SIMILARITY | 55% REQUIREMENT FOUND

QVscribe

Quality Score:

No Imperatives 1

All Alerts 6

Warnings 1

Similarity 3

EARS Ubiquitous, Non-conformi...

Send Feedback

Additionally, the specific type of EARS requirement will be displayed in the right-hand menu.

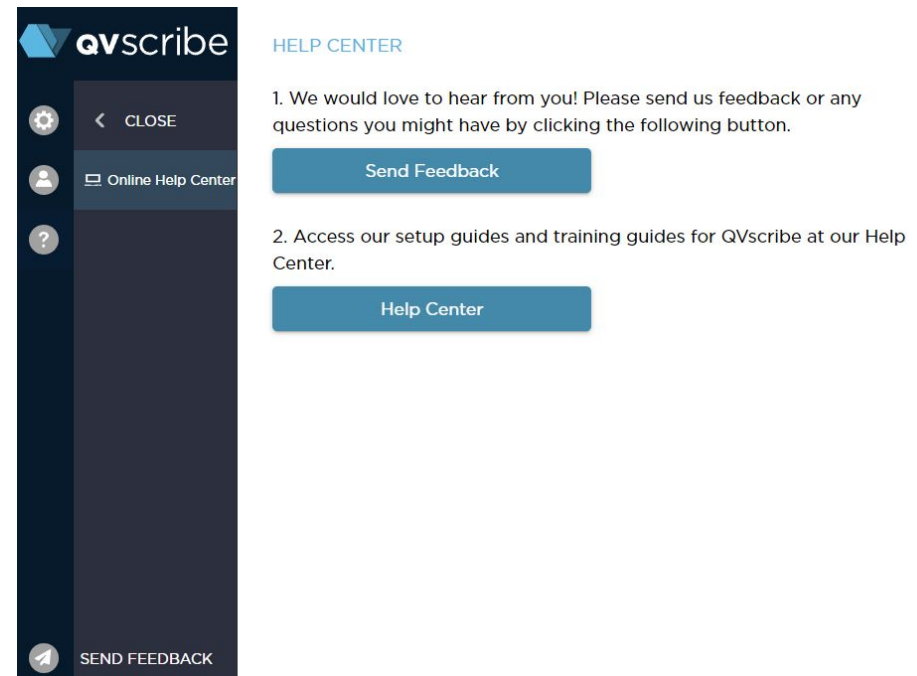
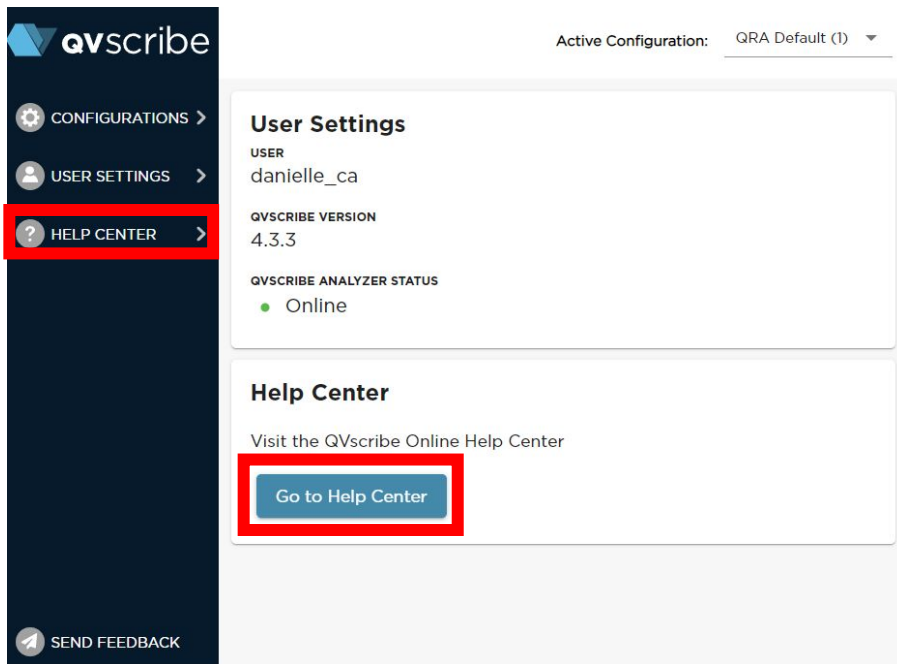
QVscribe Help Center

The QVscribe Help Center details can be found by clicking the QVscribe browser extension.

To go to the Help Center, you can find the link directly on the main page of the QVscribe Browser Extension Menu. If you select the Help Center option on the left, you can find more information. Another link to the Help Centre can be found here.



If you experience errors, unexpected behavior in QVscribe or if you would like to contact us for assistance, select the Send Feedback option on the left.





Thank You

To learn more about QVscribe, visit
qracorp.com