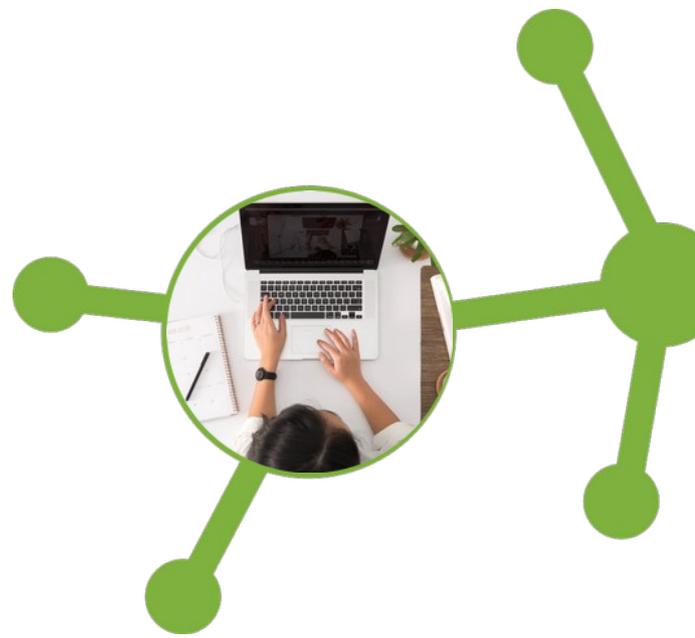


Compliance Assistant

Save time and ensure regulatory compliance with automatic finding and summarizing of relevant information in standards and applicable documents



Imagine you had a system that reads thousands of pages of standards and applicable documents. During product development, you select a requirement and get a summary of the relevant passages from those documents. This saves time and reduces risks regarding compliance requirements.

Situation

You are an engineer and you develop a component, maybe for a car. You have a large requirements specification. And you have an even larger pile of standards and applicable documents.

Challenge

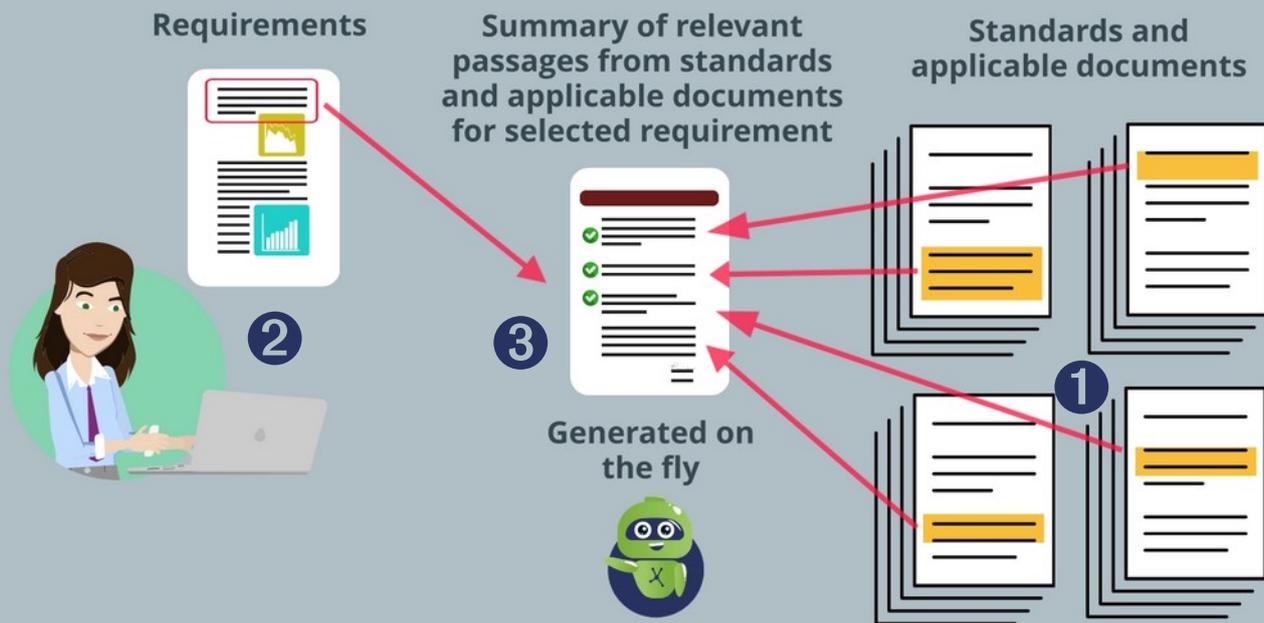
How can you be sure to take all relevant information from standards and applicable documents into account? Reading everything cover to cover will take years!

Solution

Semiant will identify all relevant passages from the standards and applicable documents. And then summarize them. There is full traceability from requirement to summary to the relevant passages.

Results

With a quick glance at the summary, you understand what standards and documents are relevant for what you are working on. You can dive as deep as you need any time using traceability. This will save hours each week and reduce the risk of oversight, thereby improving overall quality.



How does it Work?

Semiant is a virtual quality assistant that extracts a system model from written text. By doing so, it understands the relationships between the concepts found in text. It also uses existing open bodies of knowledge to build an ontology and to classify the content it found.

① It performs an analysis of the standards and applicable documents, often thousands of pages of text.

Example: Semiant recognizes the concept “brake” as relevant for functional safety and related to the wheels.

② A requirements engineer can highlight the requirement she is working on, or define the context of interest in a different way.

Example: Requirement: “Each wheel shall be equipped with a braking system”

③ Semiant uses KI-based summarizing to provide a short description of each section that it considers relevant for the engineer. If she judges from the summary that the section from the standard may be applicable, she can follow a hyperlink to jump to the right section in the relevant document.

Example:

ISO 26262-3:2018(E) – 7.4.2 – Derivation of functional safety requirements:

Generated summary: “The functional safety requirements shall specify, if applicable, strategies for fault avoidance, like transitioning to a safe state, and if applicable, from a safe state; the degradation of the functionality in the presence of a fault; fault detection and control of faults or the resulting malfunctioning behavior. An example is the ACC generated brake activation being overridden.”

ISO 26262-10:2018(E) – 6.5.4.1 – Hazard analysis and risk assessment:

(... next generated summary ...)

About Semiant

Semiant is an AI-based assistant that analyzes your product description. The extracted insights can be accessed by everybody in your organization – not just your team – with a web browser extension.

Semiant also performs mundane tasks behind the scenes and frees up your team's time. Now they can focus on the important, creative activities, like product development.

Semiant uses modular skills. We will grow the library of skills over time or build custom skills for your organization.

Semiant prevents waste, reduces risk and speeds up product development.

“Poor quality requirements were our #1 product development cost driver!”

Geoff Shuebrook
Corporate Advanced Engineering Practices MBSD IT&E Lead
Lockheed Martin

Interested? Visit us at www.semiant.com and schedule a demonstration.



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