DIGITAL INDUSTRIES SOFTWARE

Consulting Services for Functional Safety

Benefits

Functional Safety Consulting/
Methodology services
- Reduced risk of product failures in mission critical applications

- Faster development of new standards' compliant products

- More efficient definition of required safety manuals

Fault Campaigns-as-a-Service
- Reduces need for in-house expertise or tool knowledge to:
  – Enable compliance of IC/IP for safety critical applications

  – Root out design vulnerability to random failures

  – Validate the safety performance of your designs

Functional safety needs functional expertise
If you have experience with the design, development, and verification of components for use in safety critical applications, then you understand the need for developing, establishing, and proving compliance to stringent international standards such as ISO 26262 or DO-254. Similarly, if you are trying to enter markets such as automotive or aerospace, you need an avenue to assure that your products can meet these required standards for safety.

How can EDA Services help?
Siemens offers services, honed through years of experience in safety conscious industries such as aerospace, automotive, industrial, medical, and nuclear, that can aid you by reducing the time and effort required to meet today's safety requirements:

Functional Safety Consulting Services provide you consultative guidance in defining and building the lifecycle processes necessary to design and build products for safety critical markets.

Functional Safety Methodology services offer collaboration between our experts and your team to address the crucial elements required to develop an accurate, well-defined safety package. These would include investigating and defining key elements such as architectural safety analyses, design hardening, and fault campaigns.

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Related verification services

- **SV/UVM Methodology**
  Assistance with enhancing, extending and executing SV/UVM based verification with Questa

- **Emulation Services**
  Assisting customer teams in defining and improving methodologies and executing customer designs in the Veloce emulation flow

- **Digital Twin Methodology**
  Enabling the use of our Pave360 digital twin methodology to speed the ability to develop, test, and optimize pre-development systems under realistic usage scenarios and promote early collaboration on development between multiple stakeholders
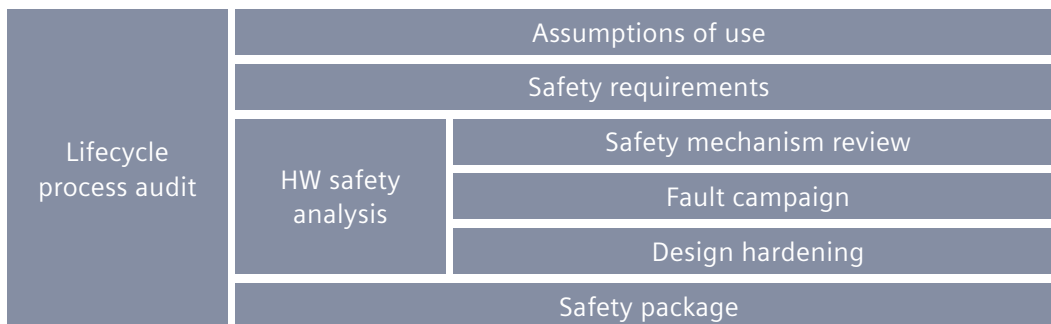

Fault Campaigns-as-a-Service (FCaaS) offers expert validation of required HW metrics. In this, our team will define and execute fault campaigns on your design using Siemens' ISO compliant stable of verification tools, including Austemper, Questa and Veloce.

Experience with the functional safety process

Siemens functional safety services professionals collaborate with you to produce a faster low-risk path to compliance. We provide the experience, framework, and knowledge to execute the necessary analyses and documentation of the foundational elements that make up a functional safety process:

Want to know more?

Your account representative can help you construct a plan drawing from one or multiple Siemens EDA Service Offerings, managed in a way that best meets your organization's goals.

Lifecycle process audit		Assumptions of use	
		Safety requirements	
	HW safety analysis	Safety mechanism review	
		Fault campaign	
		Design hardening	
		Safety package	

Siemens Digital Industries Software

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Americas
1 800 498 5351

Europe
00 800 70002222

Asia-Pacific
001 800 03061910

For additional numbers, click here.

ISO 26262

IEC 61508

DO-254

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