













Society Perspective – The Legal Landscape

(Safety Case)

What activities ar

needed for this

klog Item



VOLVO VOLVO Safety Argument for a Product Type Approval for ALKS - Automated Lane Keeping System Why Requirements on Processes in Regulation? ALKS for low speed application is a system which is Which AD requirem To demonstrate achieved safety, an argument including at (a) Econ activated by the driver and which keeps the vehicle least the following is necessary: §3.4.1 The **manufacturer** shall provide a statement which within its lane for travelling speed of 60 km/h or less affirms that the "The System" is free from unreasonable Product Argument - Demonstrate fulfillment of safety by controlling the lateral and longitudinal movements risks for the driver, passengers and other road use of the vehicle for extended periods without the need requirements including V&V for further driver input. Declaration of • Process Argument - Gives the confidence placed in the Conformance to ISO26262 Includes e.g.: 3.4.3 The manufacturer shall provide the Type Approval product argument. Authority with an **explanation of the design provisions** built nto "The System" so as **to ensure functional and operational** Required driving behavior (e.g. minimal distances) • safetv · System Safety and Fail-safe Response A Process Argument Reguires: Domant in fir in we about in fir 0 HMI / Operator Information §3.5.1 ... the manufacturer shall demonstrate to the type Well-defined development process specifying the 1. Object and Event Detection and Response approval authority in terms of a safety m risk reduction related development activities. em that effective processes, metho sand tools are in place, up to date and being followed within Busines Data Storage . Demonstrated fulfillment of the development 2 organization to manage the safe · Cybersecurity and Software-Updates activities Annex on "Special requirements to be applied to the functional and operational safety aspects"



















































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Current Status	
Ongoing work in international subteams analyzing and discussing the national proposal for content changes.	
ISO TS 5083 document skeleton has been created.	
Open discussions	ISO/DTS5083 Skeleton – Harmonized Draft I. Juny 2. Juny Aberryon
Normative Objectives	Advancement Subournet Derview and Motivation Overall goals of the 15
Verification & Validation	How to use this document Whet is safety Alarty Safety Case
Safety by Design	Adds safety principles/publiches 6. Safety Stortegy Adds safety reservices
Management of the Operational Phase Safety	Safery development & operation plan Safery requirements (PIR, AUR, etc.) Applications of extern standards
Positive Risk Balance and relation to Absence of Unreasonable Risk.	2. Listing (a Soughe Common Feature Sec. 2014). Sec. 2014 2. Listing and a Sec. 2014 Sec. 2014 2. Listing and a Sec. 2014 Sec. 2014 2. Listing and a Sec. 2014 3. L









Summary

• For safe application of SW and Electronics technology there are regulation as well as industry best-practices in place.

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- Continuously developed and adapted, e.g. for ADS.
- Industry standards provides terminology and toolboxes to achieve safety and meet regulation.
- How to argue achievement of safe ADS is an open question which is being addressed through research, industry collaboration and standardization.

22w47 SCSSS 2021 - The Automotive Safety Confusion, Fredrik Törner, Security Class: Public



