

DIGITAL TRANSFORMS PHYSICAL

# ISO 26262:2018 & ASPICE Template

for Automotive Product Development and Functional Safety Compliance







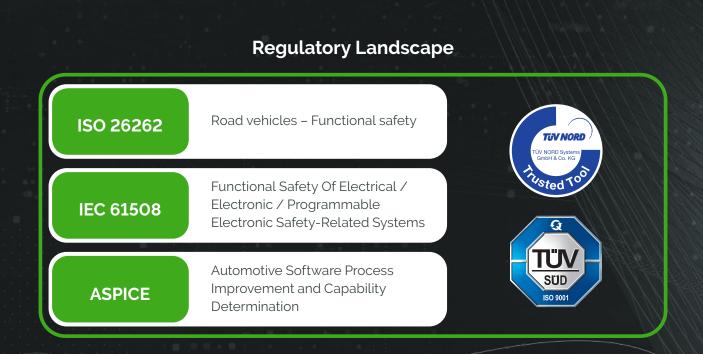
### ISO 26262:2018 & ASPICE Template

#### for Automotive Product Development and Functional Safety Compliance

The evolution of functional safety and product quality requirements in the automotive industry is a growing source of headache for developers, suppliers, and manufacturers of digital mobility technology. Regulatory compliance is costly, complicated – and of crucial importance.

Codebeamer's Automotive ISO 26262:2018 & ASPICE Template leverages the advanced capabilities of our platform to adhere to and prove compliance with the requirements of automotive regulations and guidelines. This template helps implement the work products and workflows described by the second, 2018 edition of ISO 26262 in your automotive product delivery environment.

This template comes preconfigured to support automotive OEMs and suppliers in the development of high-quality automotive hardware and software systems that comply with relevant quality and safety standards. Using our platform enables you to develop safety-related embedded systems up to ASIL D or SIL 3.



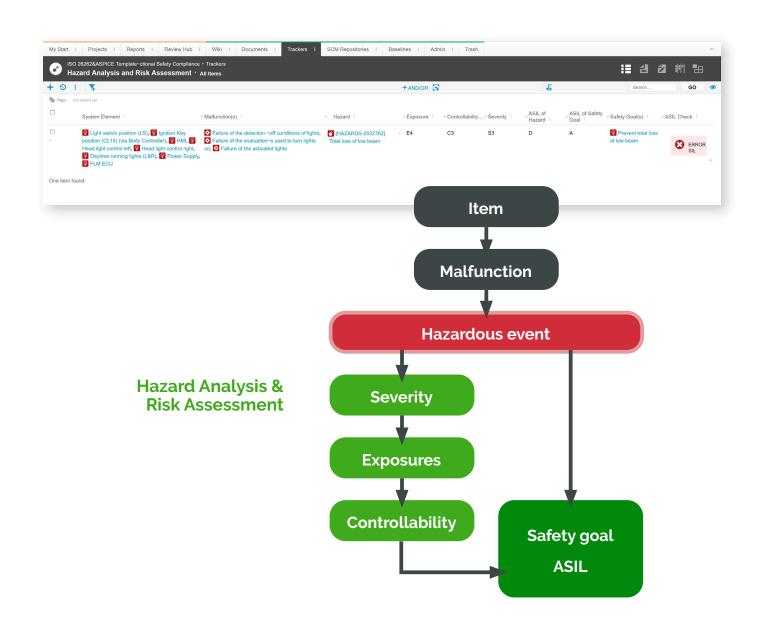


#### Design Functionally Safe Systems and Products

The scope of our Automotive ISO 26262:2018 & ASPICE Template covers system design, safety, hardware, and software engineering. Both Subsystem and System Design are supported by this template, providing you with a one-stop shop for your compliance needs. The preconfigured but flexibly adaptable artifacts in this template greatly accelerate the delivery of ISO 26262 and ASPICE work products.

## Bidirectional Traceability for Hazard Analysis

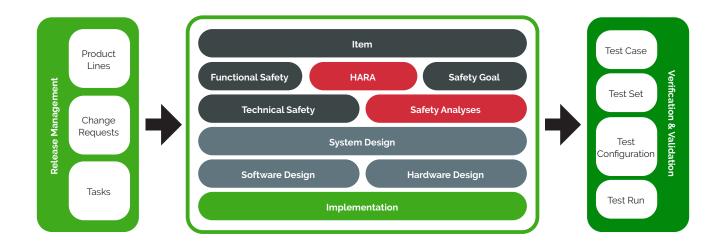
Hazard Analysis and Risk Assessment is a fundamental part of this template. With built-in functionality, the template lets you carry out hazard analysis for your work items, and determine ASIL classification levels for your safety goals. These then serve as input for safety requirements, providing upstream and downstream traceability on all hazards and their reduction/mitigation actions.

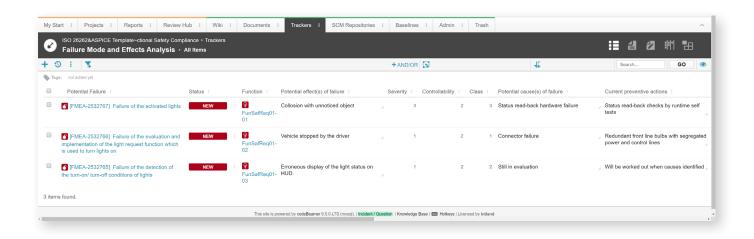




#### **Integration to Safety Analysis Reports**

The template enables you to import results from 3rd party safety analysis tools, and link those values to your model within the template. Whatever mode of safety analysis you apply (FMEA, ETA, Markov models, FTA, HAZOP, Reliability block diagrams), you'll be able to connect those results to actual development artifacts within this template.

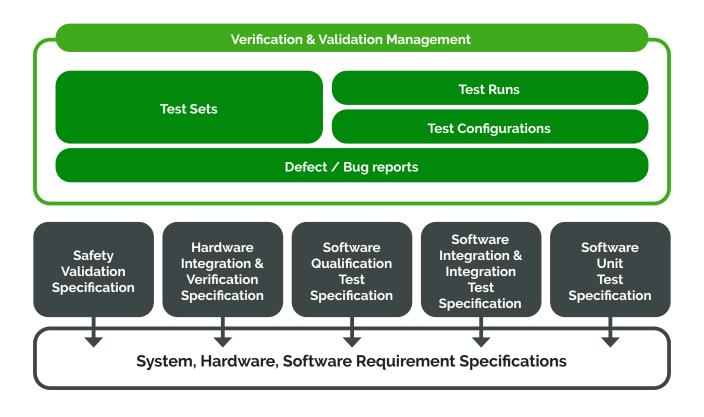


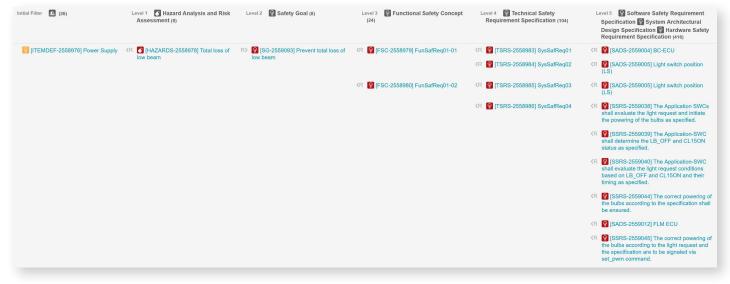




#### System, Hardware, and Software V&V Management

This Automotive ISO 26262:2018 & ASPICE Template covers verification and validation (including test cases, test configurations, test sets, and test runs) for systems design and its hardware and software domains. From planning through delivery to verification, this template supports all system design processes with preconfigured functionality.







#### **Built-in Change Management**

Using this template ensures full change control along the lifecycle. Any and all changes to artifacts (items and workflows) are logged and timestamped. Preconfigured change requests may be issued, with tasks linked to releases for complete traceability on change management.

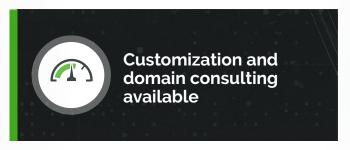
#### Why use Codebeamer's ISO 26262:2018 & ASPICE Template?















#### Our solutions are successfully used by:

































...and many more.

# **Explore Codebeamer's Automotive solutions in action**

Find out why global leaders like Volkswagen, BMW, and Daimler use our tools! Discover the benefits of PTC®'s Codebeamer technology, our integrated Engineering and Application Lifecycle Management platform for automotive systems development & functional safety.

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#### **Validation Solution for Automotive Use Cases**

Codebeamer's Tool Validation Kit helps simplify and accelerate toolqualification and validation in regulated productdevelopment. Learn more at:



https://intland.com/codebeamer/validation-kits/