

# SOTIF ISO 21448

## Ensuring Systems Operate in Compliance with Expectations

Safety of the Intended Functionality (SOTIF) is a critical aspect of ensuring the safe operation of systems, particularly in the context of advanced driver assistance systems and autonomous vehicles. At enau, we prioritize the implementation of SOTIF measures based on ISO 21448 standards to guarantee that systems operate in alignment with expectations, minimizing the risk of potential hazards.

### Understanding ISO 21448

ISO 21448 is an international standard that addresses the concept of SOTIF, providing guidelines and requirements for ensuring that systems, especially those in the automotive domain, operate safely under various conditions. The standard focuses on potential shortcomings in the system's behavior, even when it is operating as intended, and aims to mitigate the associated risks.

### System Understanding and Analysis

enau begins by conducting a comprehensive analysis of the system to understand its intended functionality thoroughly. We identify potential scenarios and conditions under which the system may encounter challenges, ensuring a clear understanding of its operational scope.

### Risk Assessment

The SOTIF process involves a detailed risk assessment to identify scenarios where the system's intended functionality may not align with operational expectations. enau collaborates with clients to assess and categorize potential risks associated with the system's behavior, prioritizing them based on their severity.

### Definition of Operational Design Domain (ODD)

Defining the Operational Design Domain is crucial for SOTIF. enau assists clients in clearly defining the conditions and scenarios under which the system is intended to operate. This includes factors such as environmental conditions, geographic locations, and specific use cases.

### Scenario-Based Testing

To validate SOTIF measures, enau employs scenario-based testing. This involves simulating various scenarios and conditions to observe how the system responds. Testing is conducted both in controlled environments and through virtual simulations to ensure a comprehensive evaluation.

### Continuous Monitoring and Improvement

SOTIF is an ongoing process that requires continuous monitoring and improvement. enau works with clients to establish a framework for continuous assessment, allowing for the adaptation of SOTIF measures to evolving scenarios and technological advancements.

### Expertise:

enau possesses a team of experts well-versed in SOTIF principles and ISO 21448 standards.

### Customized Solutions:

Our approach is tailored to the specific characteristics and intended functionality of each system.

### Collaboration:

We believe in close collaboration with clients to ensure a shared understanding of system expectations and risks.

**Adaptive Strategies:**

Our SOTIF strategies are designed to be adaptable, accommodating changes in technology and operational requirements. Ensuring that systems operate in compliance with expectations is a fundamental aspect of safety, especially in the rapidly advancing field of autonomous vehicles. enau's commitment to SOTIF, rooted in ISO 21448 standards, provides a robust framework for identifying and mitigating potential risks associated with system behavior. Contact us to enhance the safety of your systems and instill confidence in their intended functionality.