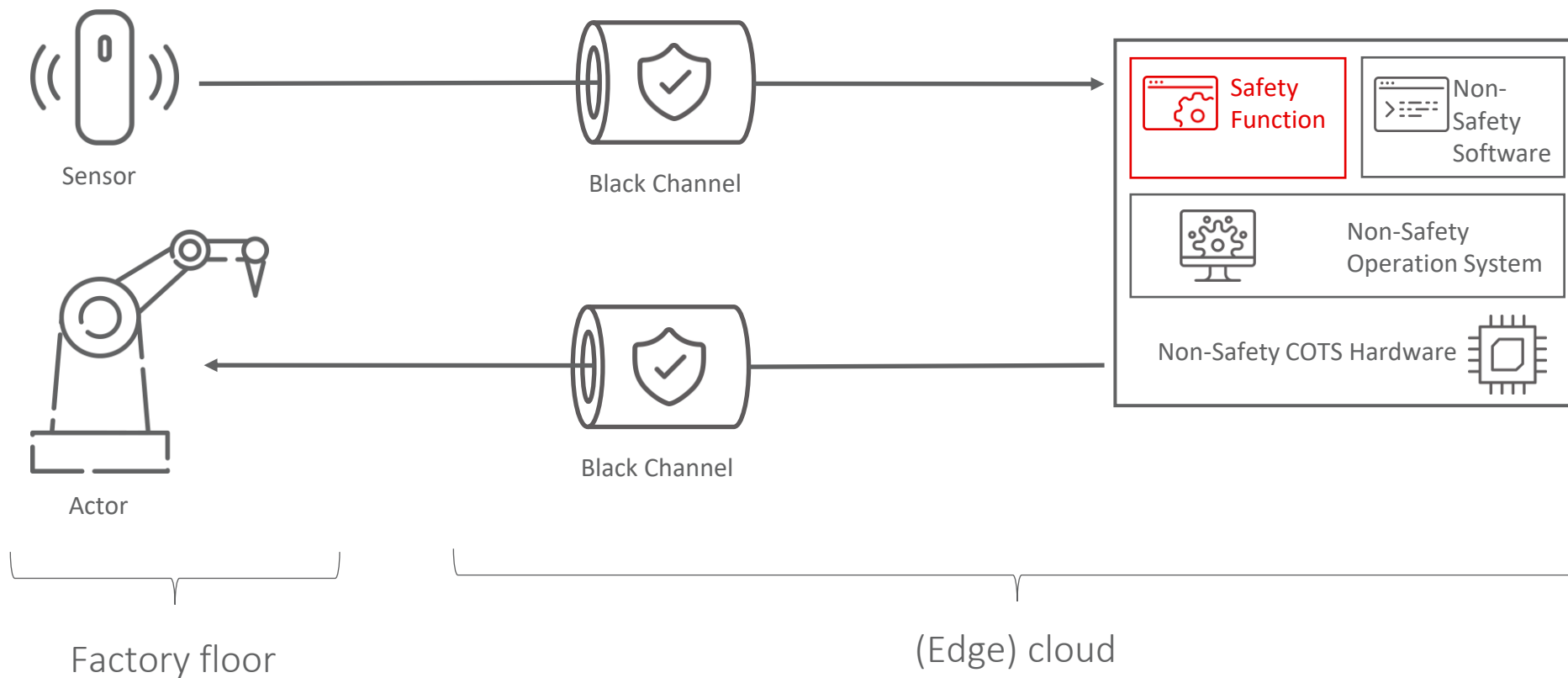
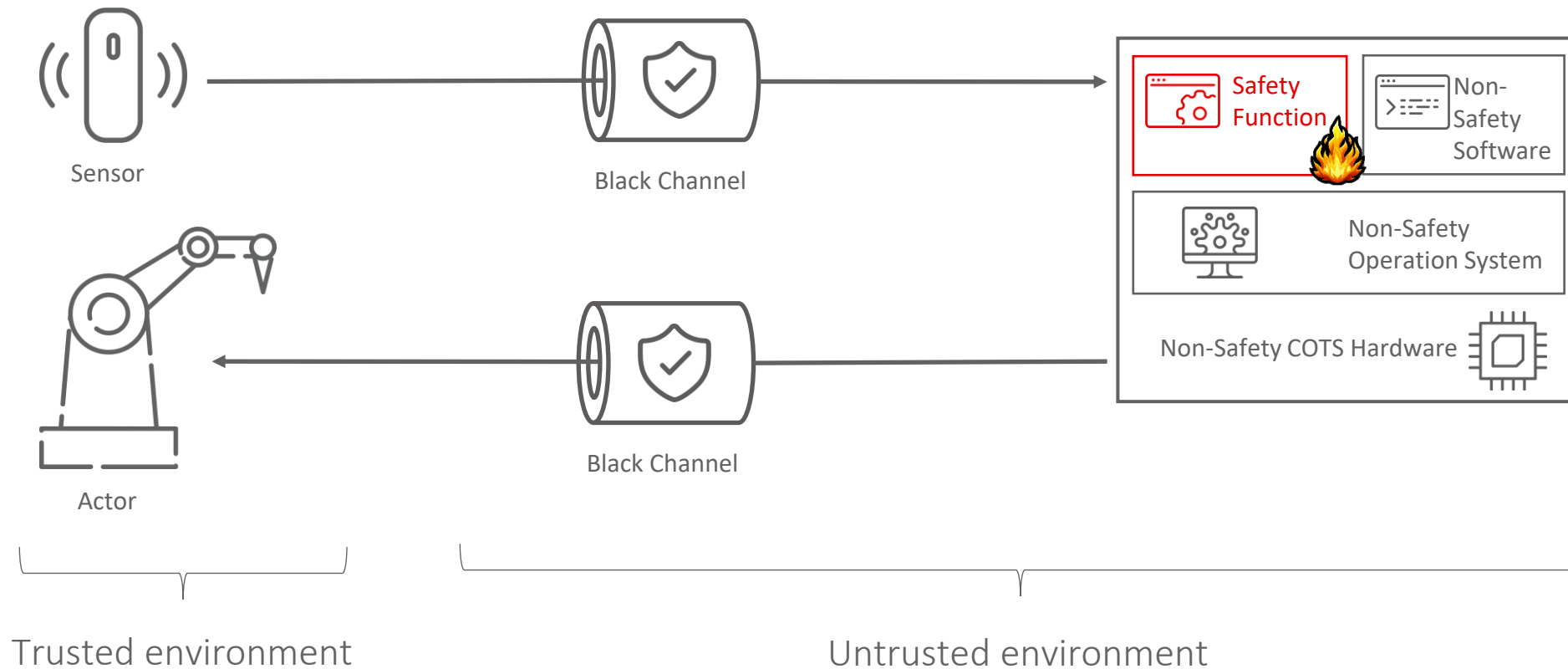


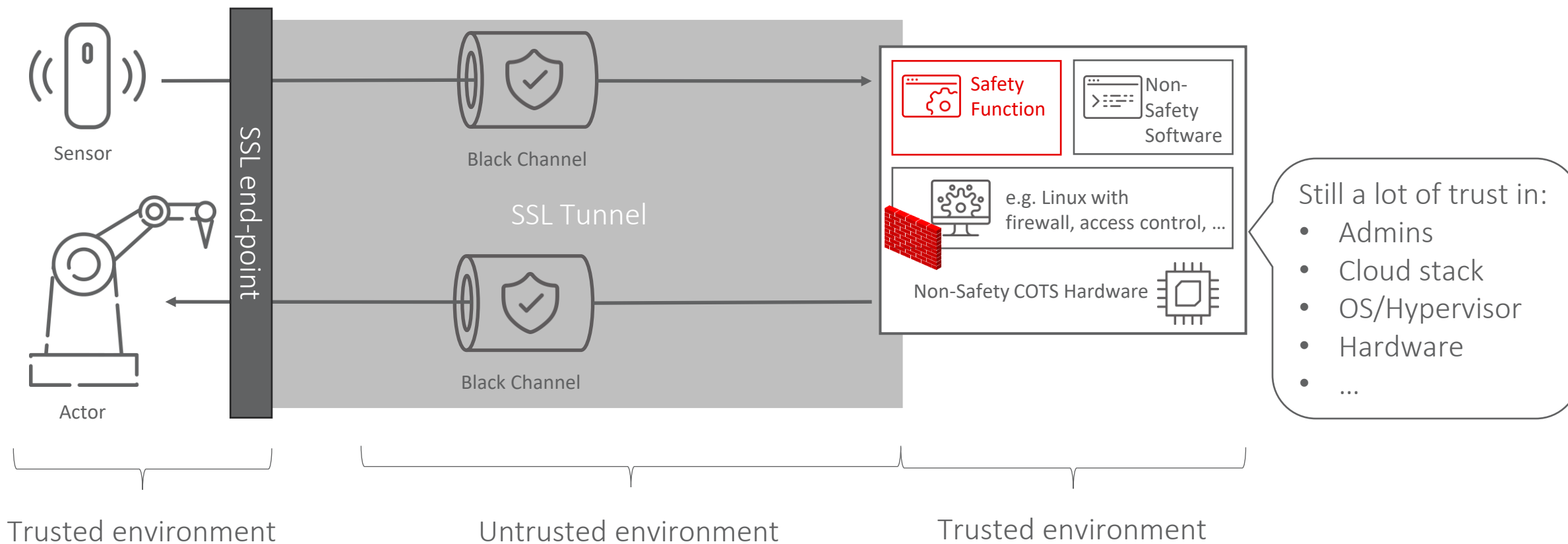
Motivation: Safety Without Security



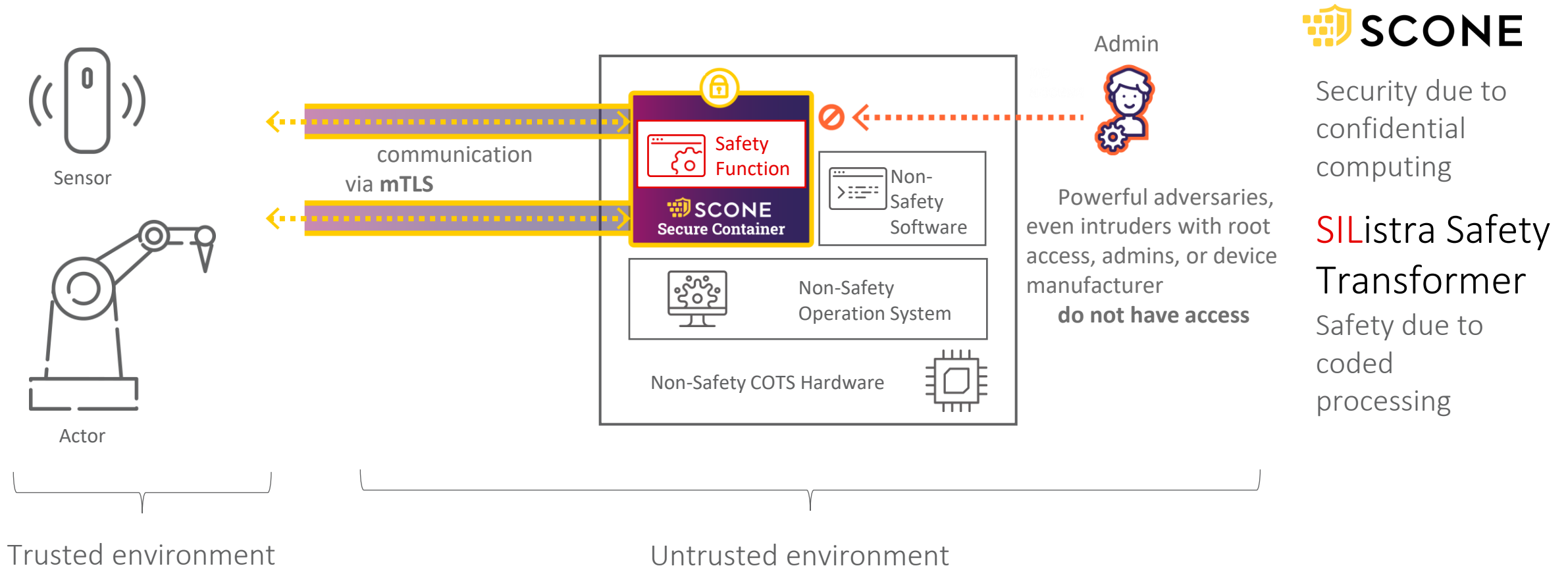
Motivation: No Safety without Security



Safety & Security



State-of-the-art Safety & Security



Security due to confidential computing

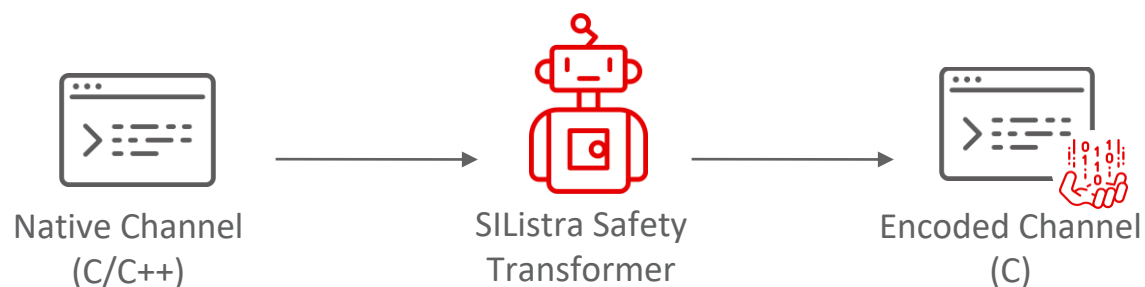
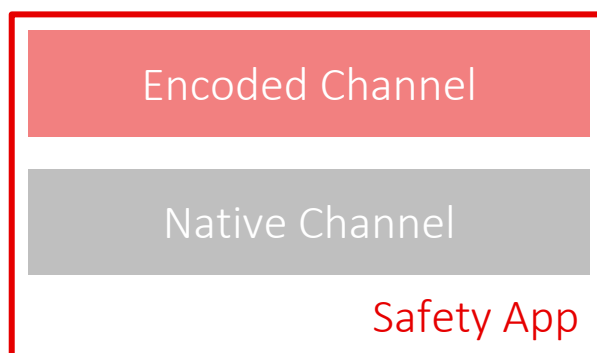
SIListra Safety Transformer

Safety due to coded processing

Scone: <https://scontain.com>

SIListra Safety Transformer: Safety due to Coded Processing

Two diverse SW channels:

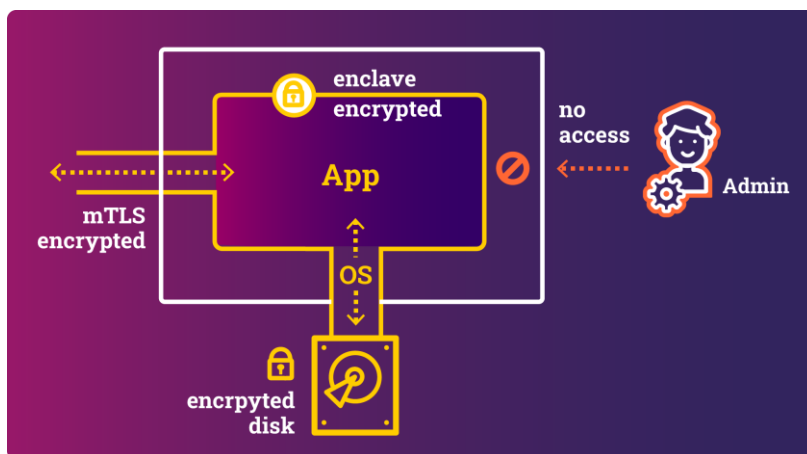


- Fully automated application of SCP with the **SIListra Safety Transformer**
- 18 years of experience that includes anything from theoretical research to industrial applications
- TÜV Süd Rail GmbH has assessed the SIListra Safety Transformer 2.0.0 in 2023
 - ISO 26262:2018 (up to ASIL-D)
 - IEC 61508:2010 (up to SIL3)
 - ISO 13849-1:2023 (up to PL_e)
 - IEC 62061:2021 (maximum SIL3)



SCONE

Security due to Confidential Computing



- SCONE supports the development and operations of modern **confidential cloud-native applications** and **multi-party confidential computing**.
- The objective of the SCONE platform is to protect of applications, data, code and secrets **at rest**, **during transmission** and **during computation**.
- Native applications can be transformed into confidential applications **without source code changes** and run in TEE hardware enclaves (e.g. Intel SGX)

 **SCONTAIN**

- Private independent German SME
 - Founded 2017
- About 20 employees in Germany & Brazil
 - Rust, Go, C, and Java
 - certified Kubernetes administrators
 - Focus on confidential
- <https://scontain.com>

 SIListra
making systems safer

- Spin-off of TUD Dresden University of Technology
 - Founded 2012
- About 10 Software Developers in Dresden
 - C/C++, Embedded
 - all certified Functional Safety Engineers, Professionals or Experts
- <https://silistra-systems.com>

Goal: State-of-the-art Safety & Security

State-of-the-art Safety with Coded Processing

- Run safety logic on any hardware
- Together with non-safety software
- Enables more flexible architectures
- Shortens development times
- Scale with the available hardware
- Enables portability to other hardware

State-of-the-art Security with Confidential Computing

- Run on untrusted (edge)-cloud
- No trust required in
 - Admins
 - Cloud stack
 - OS/Hypervisor
 - Hardware