

Global Security Requirements

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SME

Charles Wilson

Abstract

This document describes the process for creation of a set of security requirements to be used across all products.

Group / Owner

Security / Systems Requirements Planner

Motivation

This document is motivated by the need to have formal processes in place for the creation of security requirements for the development of safety-critical, cyber-physical systems for certification of compliance to standards such as **ISO/SAE 21434** and **ISO 26262**.

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Overview

In order to create a system with the complexity of an autonomous vehicle, it is necessary to first create a uniformly applicable set of security requirements. This is especially important given that an autonomous vehicle is a safety-critical cyber-physical system.

Process

The global set of security requirements will be created through the application of gap analysis using a security requirements taxonomy [\[1\]](#). These requirements will then be entered into the requirements tracking system. There they will be tagged based on their **AVCDL** phase of use. They will then be normalized to INCOSE standards using a requirements analysis tool.

References

1. Security Requirements Taxonomy