

ISO / SAE 21434

Overview

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INTRO

Scope, Structure



ISO / SAE 21434

Road Vehicles - Cybersecurity Engineering

- **Scope:**

This document specifies requirements for cybersecurity risk management for road vehicles, their components and interfaces, throughout engineering (e.g. concept, design, development), production, operation, maintenance, and decommissioning.

A framework is defined that includes requirements for cybersecurity process and a common language for communicating and managing cybersecurity risk among stakeholders.

This document is applicable to road vehicles that include electrical and electronic (E/E) systems, their interfaces and their communications. This document does not prescribe specific technology or solutions related to cybersecurity.

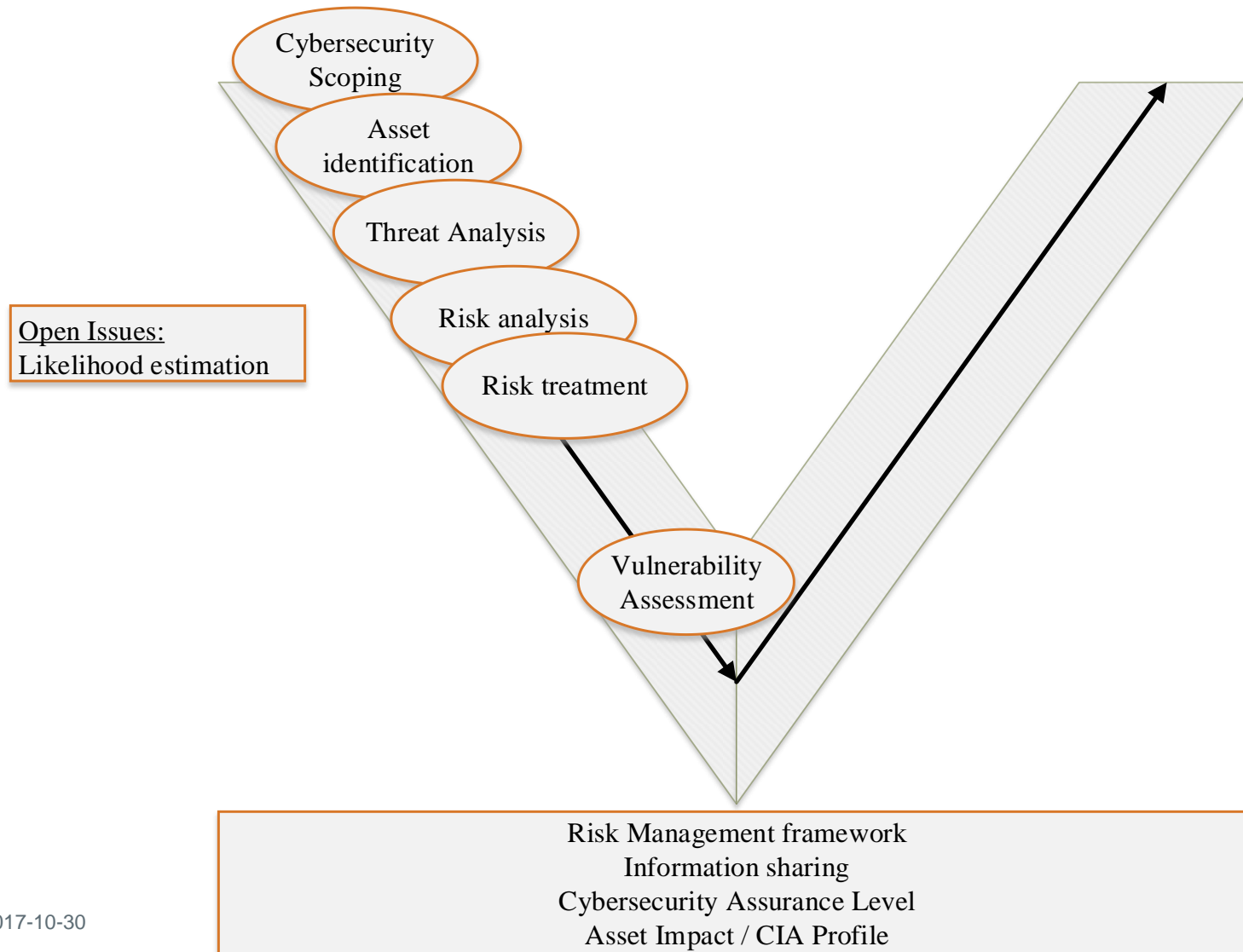
STRUCTURE

- 4 Part Groups
 - PG1 Risk Management
 - PG2 Product Development
 - PG3 Operation, Maintenance and other Processes
 - PG4 Process Overview and Interdependencies
- Cross-PG Terms&Definition Group
- Sub-PG Groups for specific topics or clauses
 - Threat Analysis
 - Concept Clause
 - Safety&Security interaction
 - Privacy consideration
- All PGs are developing stand alone documents, but they could be integrated (number of parts could change)

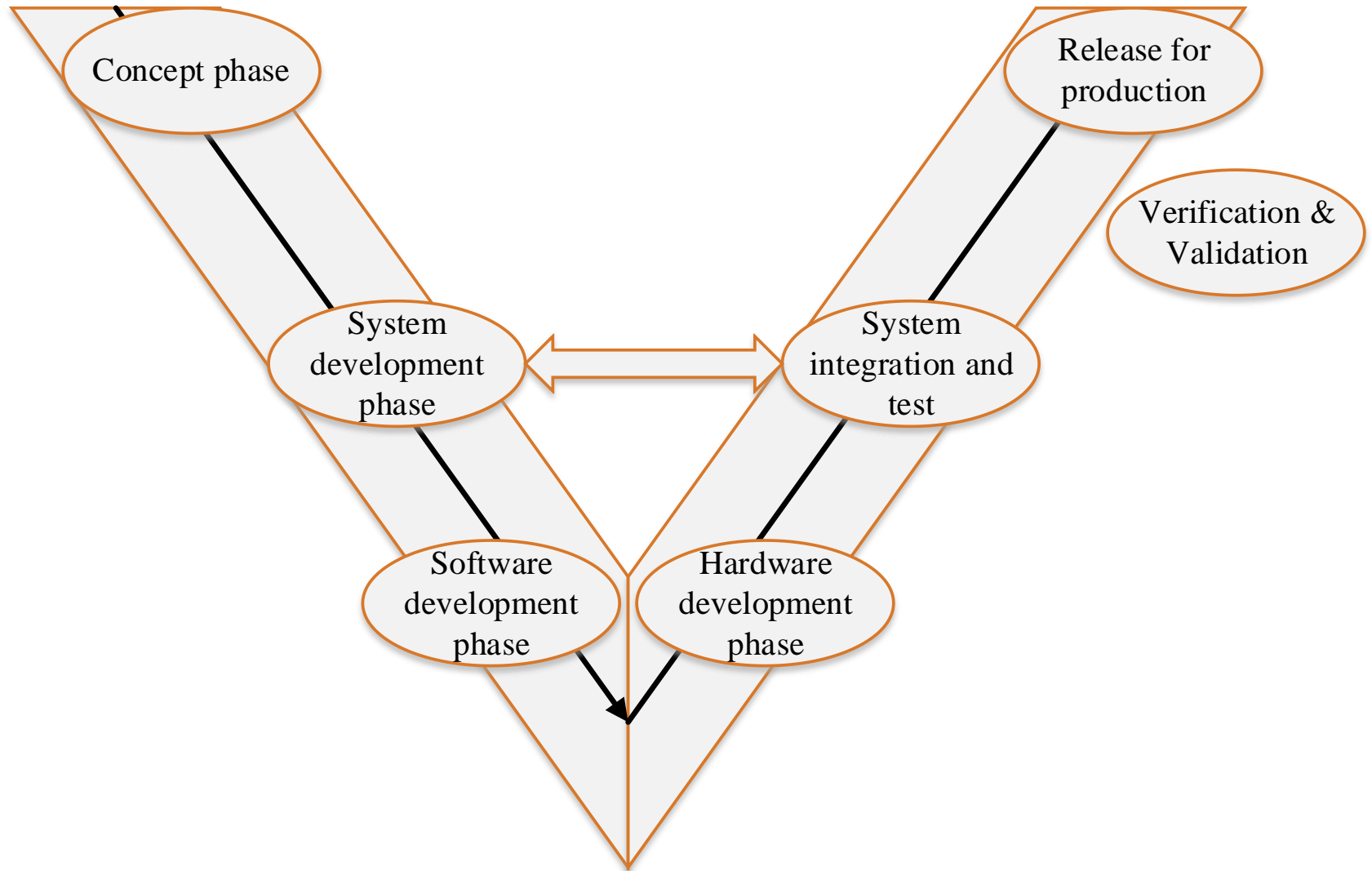
ISO 21434

Part content overview

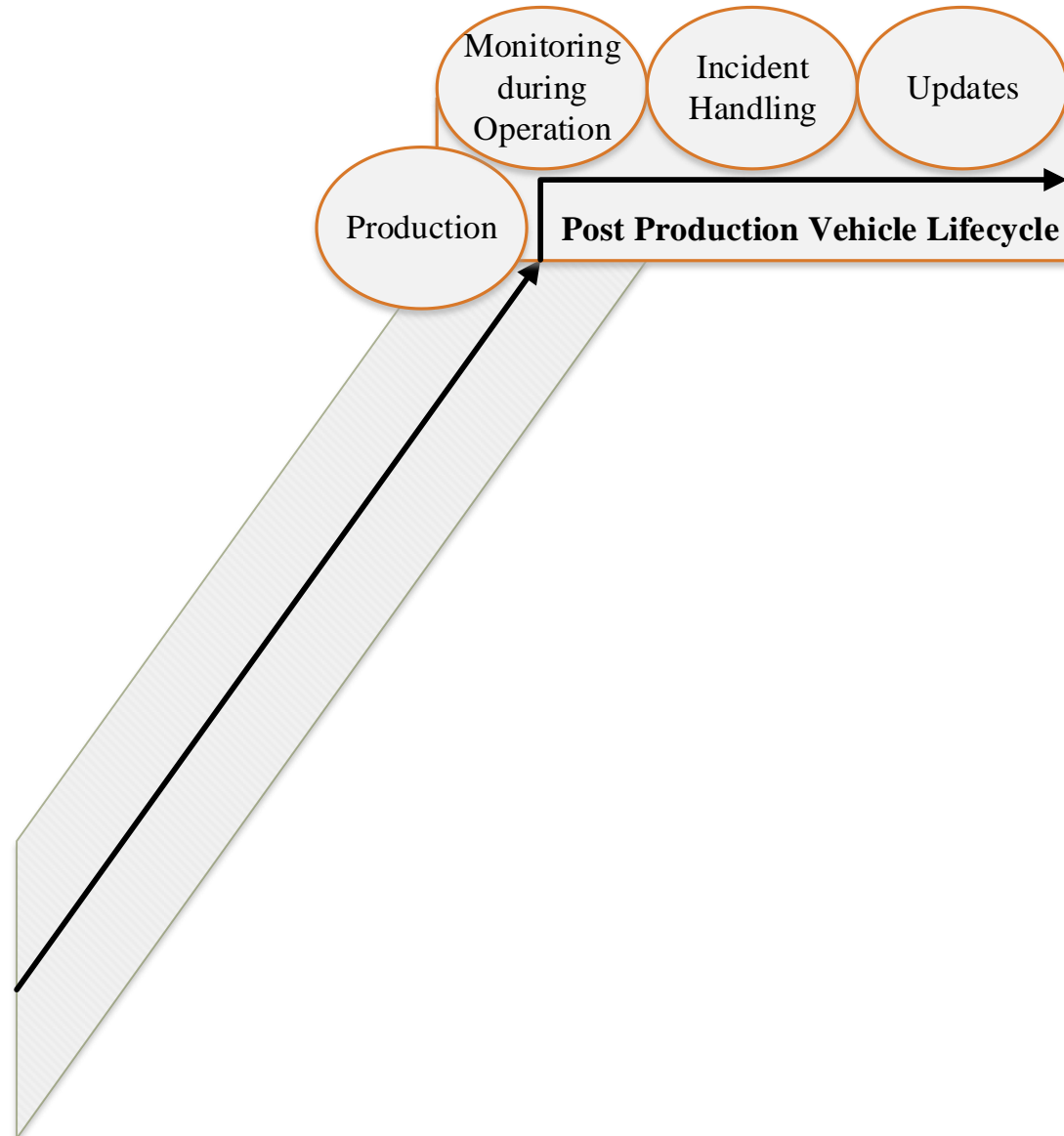
ISO / SAE 21434 PG1



ISO / SAE 21434 PG2



ISO / SAE 21434 PG3



ISO / SAE 21434 PG4

Project:

- Project dependent cybersecurity management
- Tailoring of the reference cybersecurity lifecycle
- Cybersecurity planning
- Cybersecurity audit
- Cybersecurity assessment
- Management of residual cybersecurity risk

Prozess / Organization:

- Cybersecurity management across the organization
- Cybersecurity incident management system
- Management of identified vulnerabilities
- Cybersecurity awareness and competence management
- Interactions between security and functional safety
- Example of a role model regarding cybersecurity

Distributed Development:

- Evaluation of supplier capability
- Engineering Interface Agreement

Open Issues:

- Development of a cybersecurity-related element out of context



THANK YOU!

Christoph Schmittner, 17.10.2017

