ISO-SAE 21434 – UNECE TF CS/OTA
Update on Liaison

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Standardizing Cybersecurity Engineering
Goals of the Initiative

The future standard shall...

1. Give uniform definition of notions relevant to automotive security
2. Specify minimum requirements on security engineering process and activities and define – wherever possible – criteria for assessment
3. Describe the state of the art of security engineering in automotive E/E development

Targeted effects on automotive industry

› Common and internationally agreed understanding of automotive cybersecurity engineering
› Sufficient rigor as reference for legislative institutions; ensure legal certainty
ISO-SAE 21434 Cybersecurity Engineering General Outline and Status Update

Current Status
› First consolidated document
› Preparing next international Meeting (next week)
› Current Outline/Documents available internally

Next Steps
› Preparation of Working Draft (March 2018)
› Preparation of Committee Draft (October 2018)

General Outline (Draft)
1 Scope
2 Normative references
3 Terms and Definitions
4 Introduction
5 Cybersecurity Engineering – General Requirements
6 Cybersecurity Management – Govern Process
7 Cybersecurity Management – Engage Process
8 Cybersecurity Engineering – Develop Process
9 Cybersecurity in Production & Post-production
10 Appendixes
9.1 General concepts

9.1.1 Update types  
9.1.2 Best practices for addressing issues  
9.1.3 Creation of an Update

9.2 Ability to be updated

9.2.1 General
9.2.2 Update rollback

9.3 Roles and Responsibilities

9.4 Remotely applying an update

9.4.1 General
9.4.2 Ability to self-test the update
9.4.3 Ability to restore the last known good state
9.4.4 Circumstances under which the update can be applied

9.5 Update release process

9.5.1 General concepts
9.5.2 Applying an Update
9.5.3 Security requirements on the update
9.5.4 Additional requirements on the update
9.5.5 Compatibility

9.6 Update monitoring

9.6.1 Considerations
9.6.2 Maintain vehicle information

9.7 End of support

9.7.1 General
9.7.2 Handling End-of-Support
Road Vehicles – Cybersecurity Engineering
National Delegations

Delegations: ISO SAE
Road Vehicles – Cybersecurity Engineering
ISO/SAE 21434 – Overall Schedule

Legend:
- Drafting Phase
- Balloting Phase

ISO Abbreviations:
- WD: Working Draft (JWG Level)
- CD: Committee Draft (ISO/TC/SC) Level
- DIS: Draft International Standard
- FDIS: Final Draft International Standard

Start JWG

October 1st, 2016

Joint publication of ISO/SAE-Standard

Legend:

ISO

2018-03-30
ISO WD-ballot for technical comments

2018-09-15
ISO CD-ballot for technical comments

2019-03-15
ISO DIS-ballot for technical comments

2019-09-15
ISO FDIS-ballot only editorial comments

SAE Level Council ballot only editorial comments

SAE Level 1 Technical committee ballot for technical comments

SAE Level 1 Technical committee ballot for technical comments

SAE Level 1 Technical committee ballot for technical comments

ISO WD:

ISO CD:

ISO DIS:

ISO FDIS:

ISO/SAE:

SAE Level Council:

JWG:

ISO:

SAE:

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