WAVESTONE

Together With You



Présentation UNECE WP29

11/12/2020 | Théo TAMISIER & Paul FAUCHET



What is UNECE WP.29?

UNECE WP.29 in a nutshell



What is inside UNECE WP.29?



> Recording of events; activation/deactivation of the systems
> SW validation; simulation proofs, atc.

> SW validation: simulation proofs, etc.

The **CYBER SECURITY** and **SOFTWARE UPDATE** certifications are valid for a period of **THREE YEARS**

UNECE WP.29 – CSMS and high-level Cyber Security processes



UNECE WP.29 – A lifetime engagement

At any stage of a vehicle's lifecycle, all automotive actors will have to match further cybersecurity requirements.



UNECE WP.29 – Significant impact on all core businesses



INFORMATION SYSTEM

- Working environment
- Production environment
- Development environment

SERVICES

- End-user applications (mobile, etc.)
- Services infrastructures (on-premises, clouds, etc.)
- Data management (customers database, data collection, ...)

PRODUCTS

- HW / SW development
- Embedded applications
- Product integration / quality / safety

Focus on some UNECE WP.29 challenges

/ 02

Challenges of UNECE WP29 – CSMS : Incident / Response

Building response teams and defining threats scenarios is key to act effectively and quickly against cyber attacks, using data collected from specifically designed components



Challenges of UNECE WP29 – Integrate Security and Safety in risk analysis methodology



© WAVESTONE / 11

Challenges of UNECE WP29 – SUMS and Operational Security



ASSET DISCOVERY

Keep an up-to-date vision of your assets with the running SW version

HOMOLOGATION

Assessing the impact of current certifications and homologating the system



SECURITY OTA

Ensure a secure deployment of your updates, from suppliers / OEM clouds to the car

CAMPAIGN MANAGEMENT

Follow up the update progression and the possible incidents

/ **03** How industrials are tackling these challenges

Integrate Cyber Security within the Software lifecycle environment



On the way to a new car architecture



LEVEL 4 and 5 "mind-off"

CENTRALIZED *Powerful DC*

BASIC SENSORS *many sensors*

(RT)OS-based *functions and software*

EXPENSIVE

NEW STANDARDS

MACHINE-DRIVEN

Securing the supply chain requires a common vocabulary

Cybersecurity Impacts the Entire Organization



A **large number of stakeholders** across diverse functions is involved in defining contracts with 3rd parties.

Common challenges, such as complexity of developing contracts, stem from the inability to form a **consistent view around cybersecurity.**

The management of 3rd party risk is therefore heavily influenced by how effectively stakeholders **communicate.**

A Common Vocabulary to Govern Supply Chain Cybersecurity

The main challenge is to address the diverse stakeholders with **different artifacts**, while remaining **aligned and coherent**.

A common vocabulary will enable :

- Clear communication between C-level and operational functions
- Translation of high level objectives in mid-level and operational requirements
- Translation of operational requirements into low-level instructions for developers and security engineers
- Seamless aggregation of low level metrics for C-level reporting



New cooperation model Operational security

WAVESTONE

Together With You



Théo TAMISIER Senior Consultant

Paul FAUCHET Senior Consultant theo.tamisier@q-perior.com

paul.fauchet@wavestone.com