UNITED NATIONS
ECONOMIC COMMISSION
FOR EUROPE

RxSWIN

Short introduction

F. Guichard, Secretary to GRVA

RxSWIN - context

RxSWIN is defined in UN Regulation No. 156 (Software Update and Software Update Management System) – 1958 Agreement.

Why such a Regulation:

➢ Need for Software Updates

- Vehicles are getting connected

- Vehicle manufacturers intend to make SW updates (incl. OTA Over The Air) in order to add new functions (e.g. ADAS) on already registered vehicles
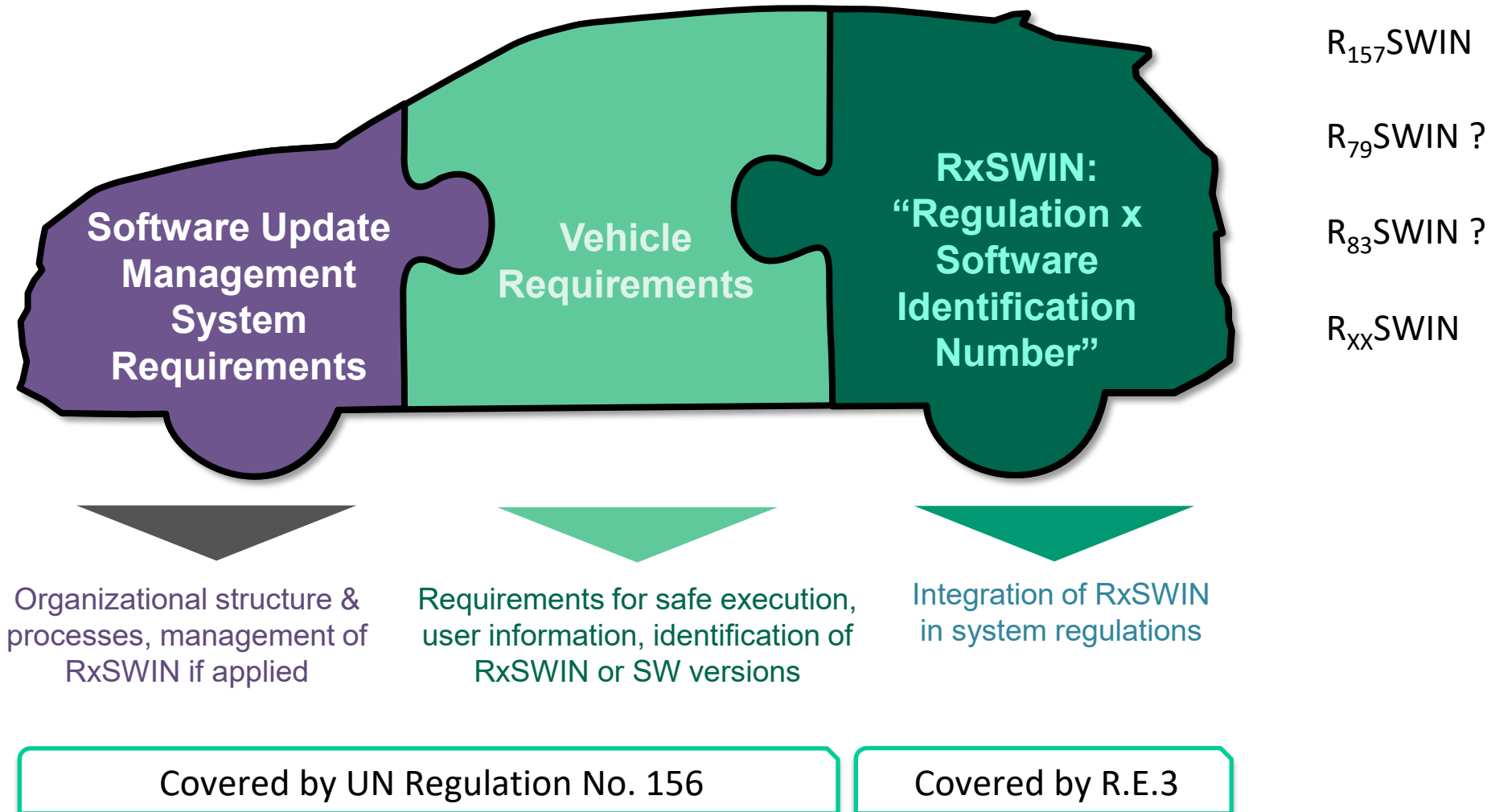
➢ Objective of the regulation

- Ensure that the SW on a vehicle is and stays compliant with vehicle type approval

RxSWIN - definition

"RX Software Identification Number (RXSWIN)" means:

- a dedicated identifier,
- defined by the vehicle manufacturer,
- representing **information** about the **type approval relevant software** of the Electronic Control System **contributing to UN Regulation N° X type approval relevant characteristics** of the vehicle

How does it work ?

Software Update Management System Requirements

Vehicle Requirements

RxSWIN: "Regulation x Software Identification Number"

R_{157}SWIN

R_{79}SWIN ?

R_{83}SWIN ?

R_{XX}SWIN

Organizational structure & processes, management of RxSWIN if applied

Requirements for safe execution, user information, identification of RxSWIN or SW versions

Integration of RxSWIN in system regulations

Covered by UN Regulation No. 156

Covered by R.E.3

Outlook

Current activities:

- Rx SWIN in the context of the 1998 Agreement

- Harmonize national/regional laws to allow for post-registration approval relevant updates

More information in:

- Interpretation document (ECE/TRANS/WP.29/2021/060)