

UNECE R155/R156 CONSULTANCY & CERTIFICATION FOR AUTOMOTIVE SUPPLIERS



► Who is this for?

Automotive components/services suppliers

► What are the deliverables?

R155/R156 workshops and Gap analysis report

► What is the objective?

Consultancy and support in achieving compliance with
UNECE R155/R156 regulations



INSIGHT INTO YOUR DIGITAL SECURITY

Secura has worked in information security and privacy for over two decades. This is why we uniquely understand the challenges that you face like no one else and would be delighted to help you address your information security matters efficiently and thoroughly. We work in the areas of people, processes and technology. For our customers we offer a range of security assessment services varying in depth and scope.

What is UNECE?

UNECE, the United Nations Economic Commission for Europe, published two draft regulations concerning vehicle cybersecurity and software updates requirements. Vehicle manufacturers in the future need to comply with these requirements. The regulations prepared by the Task Force Cyber Security and (Over The Air) Software Updates (TFCS/OTA) are the:

- **Cyber Security Regulation (R155)**, covering
 - Cyber Security Management System (CSMS)
 - Vehicle Type specific Cyber Security Approval
- **Software Updates Regulation (R156)**, covering:
 - Software Update Management System (SUMS)
 - Vehicle Type specific Software Update approval



These regulations have entered into force from 2021. From this moment, vehicle manufacturers which are in the scope of these regulations will need to fulfill their requirements in order to place their vehicles on the countries covered by UNECE. **Automotive suppliers will in turn be required by the manufacturers to fulfill subset of the requirements.** As a **recognized Technical Service**, Secura is be able to support you with **preparation for compliance**.

Scope of Regulations

The new regulations from UNECE cover cybersecurity and software updates topics. The scope of the regulations includes a wide range of vehicles, including industrial vehicles (ex. trucks), personal vehicles, transportation vehicles (ex. buses), all the way to trailers.

The regulations are addressing the processes used by the manufacturers of these vehicles during the whole vehicle life cycle, therefore including development, production and post production. Compliance with the Cybersecurity Management System (CSMS) and Software Updates Management System (SUMS) needs to be demonstrated as the first steps in the two regulations.

Building on that, for each new vehicle type (in terms of cybersecurity and software updates), the OEMs need to demonstrate that the processes from the CSMS and SUMS were fully and correctly applied in the design of the vehicle.

Services for Automotive Suppliers

INITIAL WORKSHOPS

A correct understanding of the regulation's requirements, and the impact which they might have on the management systems or the vehicle is crucial, especially since in the automotive domain changes depend heavily on the supply chain. Secura has been actively involved in the development of the regulation, and can provide **remote or on-site workshops focused on the contents and intentions of the requirements**, as well as the necessary documentation needed for the Technical Services. The workshops are **particularly focused on the requirements that the suppliers need to address**.

GAP ANALYSIS AUDITS

A pre-audit, combined with a gap analysis, is a recommended exercise to perform before the regulations will come official in effect. After such a pre-audit, the supplier can determine which of the regulation requirements are not yet fulfilled, and start planning actions accordingly. Secura can support with **conducting such pre-audits**, focused on the requirements which are applicable to automotive suppliers.

SUPPORT IN TESTING

An important part of the R155 regulation is the demonstration of the security features included in the provided services or components. Secura can support you with **fully tailorable testing services in line with the UNECE requirements**. As a recognized Technical Service, Secura knows exactly what, and up to what degree, needs to be tested, ensuring an efficient approach. Testing could cover a component, system, several systems, or software applications.

ISO/SAE 21434 COMPLIANCE AND CERTIFICATION

ISO/SAE 21434 is recognized as a reference standard for automotive cybersecurity. Suppliers can rely on parts of this standard to ensure the completeness of their processes. Secura can support suppliers in validating compliance against ISO/SAE 21434.



Insight Into Your Security with Secura

Secura has worked in information security and privacy for over 20 years. By leveraging our experience and expertise, we are a strong partner to address your information security matters efficiently and thoroughly. We can offer you the following consultancy and support services, in line with the UNECE automotive regulations:

- ▶ Workshops on understanding the requirements of the new regulations, as well as the intention behind these requirements
- ▶ Preliminary assessment and gap analysis focused on the Cybersecurity regulation requirements
- ▶ Preliminary assessment and gap analysis focused on the Software Updates regulation requirements
- ▶ Security testing on components or services, in line with the threats and security mitigations proposed by UNECE
- ▶ ISO/SAE 21434 compliance and certification

Would you like to know more about the UNECE automotive regulations?

Contact us today to discuss our services in more detail and find out which service fits your product best.



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Interested?

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