

# Automotive Cybersecurity Under UN ECE R155

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## R155 Frame

UN ECE R155 establishes CSMS requirements for vehicle-type approval; mandatory across UNECE-1958 contracting parties (EU, UK, Japan, Korea, and many others). Vehicle-OEMs must demonstrate fleet-cybersecurity management structurally.

Implementation-level compliance produces ongoing engineering cost.

## Fleet-Health Substrate

Each vehicle contributes continuous credentialed health observations across SBOM, governance-chain integrity, and emerging V2X cybersecurity attestation. Cross-OEM operations admit through declared federation.

UNECE WP.29 participating regulators participate as credentialed regulatory observers.

## Automotive Cybersecurity Trajectory

R155 enforcement maturation, emerging R156 software-update integration, emerging EU-wide automotive-cybersecurity convergence all benefit from architectural fleet-

health substrate.