

# UN ECE R156 Software Update Management

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## R156 Frame

UN ECE R156 establishes mandatory SUMS requirements for vehicle type approval across UNECE-1958 contracting parties (EU, UK, Japan, Korea, and many others).

## Architecture Implications

SUMS implementation requires structurally-supported software-update governance, update-impact assessment, and update-incident response. Architectural runtime-signed adaptation provides the structural substrate that implementation-level handling requires.

## Architectural Mapping

Runtime-signed adaptation artifacts map to SUMS update-authority signature requirements. Sandbox pre-activation maps to update-impact assessment. Cascade-deactivation maps to update-revocation requirements.

## R156 Evolution

R156 enforcement maturation and emerging UNECE R157 ALKS integration both push toward structurally-supported update architecture.