Cyber Security and OTA Software Updates
Comments and Clarifications

S. William Gouse (SAE), Nick Russell (BlackBerry), William Whyte (Qualcomm)

2022-05-24

Updates and clarifications

- The interpretation document for UN R155, although recently updated to reference the latest version of ISO/SAE 21434 (vehicle cybersecurity engineering standard), still contains some minor mistakes and oversights in its referencing of this standard.

- Update interpretation document references to ISO PAS 5112 (vehicle cybersecurity auditing handbook).
  - Handbook published in March 2022.

- Clarifications with regard to cryptographic authentication of received messages to avoid misinterpretation.
  - GNSS do not yet support this authentication method.

- Integrate ISO 24089 (vehicle software update engineering) into interpretation document for UN R156.
  - Standard publication expected next year.

Request for GRVA guidance

- SAE sees somewhat urgent need
    - Ensure clarity and avoid misunderstanding of innovative regulation
    - Preferable to be able to agree on clarifications during September GRVA
- What would be the optimal way to address these issues?
    - Organize CS/OTA informal group sessions?
    - Organize ad hoc discussion?
- If helpful, SAE can organize meetings/web conferences among interested stakeholders.