

Cybersecurity in Railway Transport



VUZ (Výzkumný Ústav Železniční, a.s.) is a leader in cybersecurity, specialising in rail transport, industrial facilities, and urban infrastructure. We provide system resilience assessment services against cyber threats based on international standards, proprietary methodologies and extensive practical experience. Our objective is to ensure the safe, functional and resilient operation of technology across key sectors.

CYBERSECURITY TESTING – VEHICLE, TRAIN, TRAIN SET

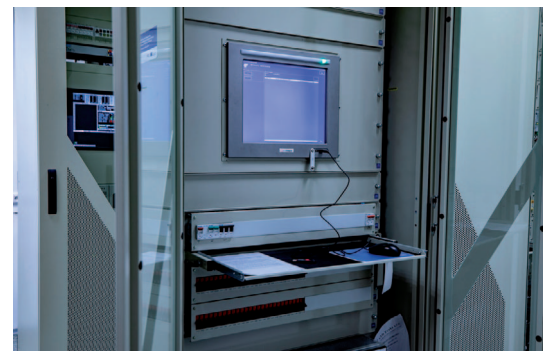
We conduct cybersecurity testing based on our own standards, as well as according to the TC 50701 technical standard. This standard introduces a systematic approach to cybersecurity issues that can be applied to all areas of railway applications. However, we also effectively apply this approach in industrial and municipal environments, where ensuring the protection of operational technologies and public services is necessary. The entire testing process is monitored and recorded. The outcome is an evaluation report and certificate issued by our company, based on the VUZ standard and following ISO 27000, IEC 62443 and TC 50701.

Services provided:

- › IT architecture consultation in view of cybersecurity
- › External examination of the IT architecture in view of cybersecurity
- › Documentation assessment in view of cybersecurity
- › Cyber threat assessment of a stationary vehicle
- › Cyber threat assessment of a moving vehicle
- › Acceptance of vehicles in view of cybersecurity

Deliverables:

- › Certificate of resilience and cybersecurity according to the VUZ standard
- › Assessment report on the compliance of cybersecurity documentation with ISO 27000, IEC 62443 and, where applicable, with TC 50701 as well
- › Assessment report on vehicle resilience to cyber-attacks according to ISO 27000, IEC 62443 and, where applicable, with TC 50701 as well



REFERENCES:

- › České dráhy, a.s.



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