Cyber security and resilience of transport infrastructure

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Communication networks: Critical Information Infrastructure and Internet Infrastructure

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Transport
Securing transport infrastructure

2015 studies

• Architecture model of the transport sector in Smart Cities
• Cyber Security and Resilience of Intelligent Public Transport. Good practices and recommendations

Objectives

• Assist IPT operators in their risk assessment
• Raise awareness to municipalities and policy makers
• Invite manufacturers and solution vendors to focus on security

https://www.enisa.europa.eu/publications
Key findings

Existing status of security for IPT is limited

- Safety does not integrate security
- Security is not well integrated in organisations
- Awareness level is low

Yet, it is possible to act today

- Understand the threats to critical assets
- Assess applicable security measures
- Collaborate to enhance cyber security

ENISA aims at providing pragmatic solutions to secure transport infrastructure in Europe
Recommendations

ENISA recommendations

- Propose solutions to enhance cyber security
- Targeted at Policy makers, IPT Operators, Manufacturers and Service providers

Key recommendations (excerpt)

- Promote collaboration on cyber security across Europe
- Integrate security in business processes
- Develop products integrating security for safety

Cyber security for Transport requires a global effort
The NIS Directive

Digital Service Providers

Operators of Essential Services

Incident Reporting

Security Requirements

Strategic Cooperation Network

Tactical/Operational CSIRT Network

National Cyber Security Strategies

Cloud Computing Services

Online Marketplaces

Search Engines

Transport

Energy

Healthcare

Banking and Financial market infrastructures

Digital Infrastructure

How you can get involved

- **Studies**
- **Events:**
  - Network attacks to ICS SCADA - Germany – end of September
  - NISD and ICS SCADA skills - Sweden – end of October

Open call for experts:

- TRANSSEC - Intelligent Public Transport Resilience and Security Expert Group
- ENISA ICS Security Stakeholder Group
- EuroSCSIE - European SCADA and Control Systems Information Exchange

https://resilience.enisa.europa.eu/
# Goals

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<th>No.</th>
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<tr>
<td>01</td>
<td>Raise the level of awareness on Infrastructure security in Europe</td>
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<td>02</td>
<td>Support Private and Public Sector with focused studies and tools</td>
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<td>03</td>
<td>Facilitate information exchange and collaboration</td>
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<td>04</td>
<td>Foster the growth of communication networks and industry</td>
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<td>05</td>
<td>Enable higher level of security for Europe’s Infrastructures</td>
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Thank you,
Rossella Mattioli

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https://www.enisa.europa.eu/