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FastPass

Automated Border Control as Challenging Combination of Various Security Technologies

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Overview

- Introduce AIT
- What is „Automated Border Control (ABC)“?
  - Motivation for the employment
  - Motivation for the research
  - Overview of installations/systems
  - Stakeholders
- What is the FastPass project
  - Objectives
  - Research topics
  - Consortium
  - Outline
Overview

- Security technologies involved
  - Passport scanning
  - Surveillance
  - IT-Security
  - Biometrics

- System view
  - System of systems
  - Data protection impact assessment
  - Privacy impact assessment
  - Security assessment

- Scenarios for different border crossing types

In practice….
Motivation

Challenges:

Passenger flow

Requirements on the border control process

System risk assessment

Harmonization

Variety in usage

27.06.2014
Why do we need research on ABC?

- Current systems have not been security evaluated
  - Passport security features are only partially checked
  - Biometric spoofing is not fully addressed
  - Passport document lifecycle is not fully addressed
Why do we need research on ABC?

- **Current systems are limited**

  - No usage by third country nationals
  - No usage by frequent travellers
  - No usage beyond air travel
  - No or weak integration into infrastructure processes
Why do we need research on ABC?

- Current systems are not developed around the user
  - No harmonized usage
  - No customer interaction and satisfaction management
  - Human factors are not analyzed and considered
  - Privacy issues are not properly addressed
FastPass
What is FastPass?

FastPass develops:

- a harmonized, modular reference system for all automated border crossing points
- by an user-centric approach and
- eventually serves as an industry standard for the implementation of ABC
The FastPass Project

- Project start: 1.1.2013
- Project duration: 4 years
- Funding: EU FP-7 Security
- Coordinator: AIT Austrian Institute of Technology
- Further info: www.fastpass-project.eu

Key element: The users are in the center of innovation!
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27 partners:
- 3 border authorities
- 4 infrastructure operators
- 11 industry partners
- 5 applied research centers
- 4 universities
Science to solution – Expected outcome

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Thank You!

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