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National Control Authority

Col. Petr Malovec, Ph.D.

Head of Department - National Border Situation Centre

Czech Border Police

Strengthening Aviation Security through Improved Traveller Identification



Agenda

- Introduction of Czech Republic & Border Police
- eID timeline in CZE
- Project overview
 - Objectives
 - Stakeholders
 - Timeline
 - Use cases
 - Positive side effects
- Lessons learned



Czech Republic

- Member of European Union (EU)
- Schengen Area (airports)
- Area: 78,864 km²
- Population: 10.5 m
- Foreigners: 437,858 (4,2%)





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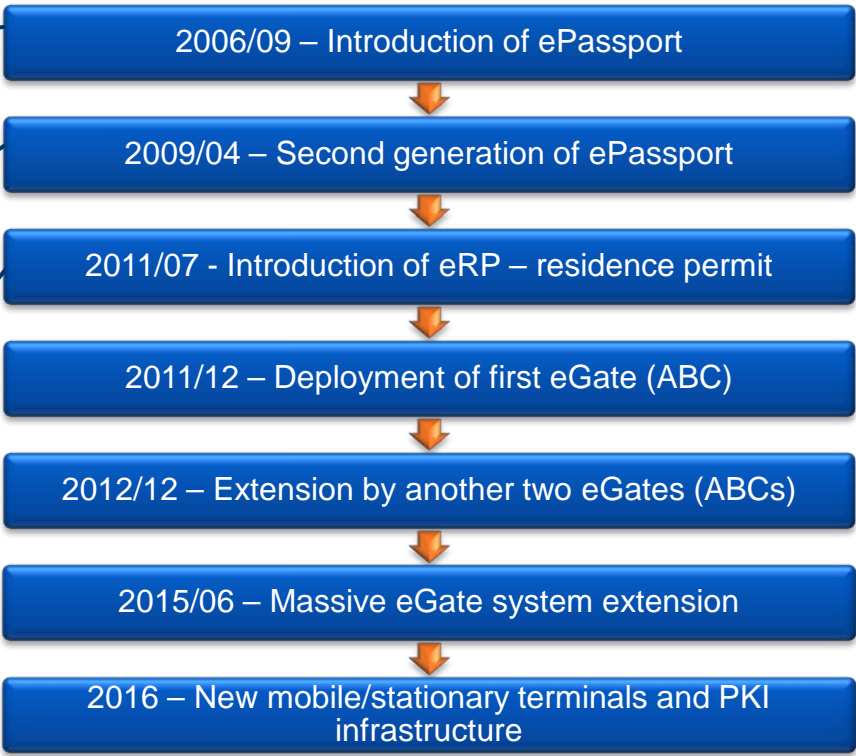
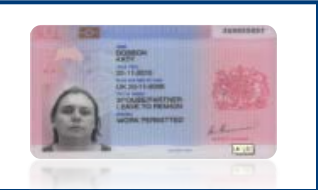
Border Police

- Part of the Police of the Czech Republic
- Executive police authority with nation-wide scope of powers
- Specialized, central, methodically-managing, expert, analytical, control and executive police authority in the area of alien matters and protection of external Schengen border





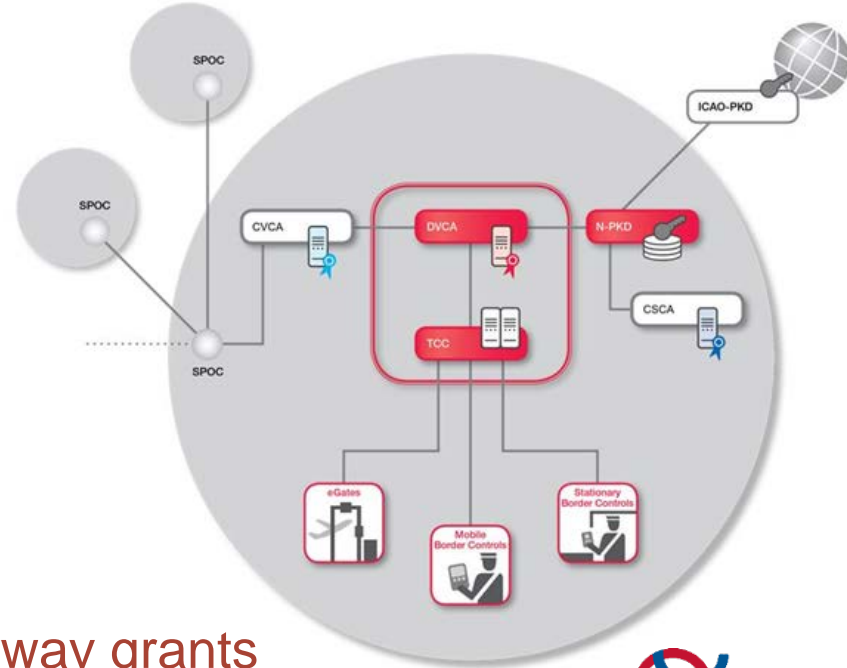
eID Timeline





Project Overview

- **Project name:**
 - NCA (National Control Authority)
- **Project duration:**
 - From 06/2016 until 09/2016
- **In official operation:**
 - Since October 1, 2016
- **Funding:**
 - Project has been co-funded by Norway grants
 - Total project budget: **EUR 288.000,-**





Project Objectives and Scope

- Implementation of a comprehensive PKI infrastructure needed for the complete eID verification process
- Project scope:
 - System infrastructure consisted of hardware and software (Primary, Back-up and Test instance)
 - Terminals for the system operation and management
 - Delivery of complex test inspection system → includes TCC according to TR-03129 and front-end application
 - Delivery of the primary system and security documentation
 - Training of users and operational personnel within initial phase of the system operation
 - System certification according to ISO 27001
- Delivered solution is based on well-proven technology
 - The **secunet eID PKI Suite** is also used by authorities in Germany, Norway, Finland and Latvia among others.



Project Stakeholders

- **Ministry of Interior**
 - as operator of the CVCA, CSCA and Country SPOC
- **Border Police**
 - as user of the certified inspection systems and terminals
- **Happy passengers**
 - as eligible users of the automated border control eGates using their eIDs
- **Airport / Airlines**
 - Benefit from modern, fast & convenient inspection procedures deployed within passenger flow



Project Timeline

- Contract Award
- Project start
- Acceptance of proposal for hardware infrastructure
- Evaluation of customer environment
- Site visits

- Completion of SW and HW installation
- Deployment of application SW
- Initiation of test environment at MOI
- Acceptance of documentation

June

July

August

September October

- Implementation of SPOC interface
- Begin hardware implementation in all locations
- Installation of system software

- Certification acc. to ISO 27001
- Introduction/registration of CZE DVCA and CVCA
- Full operation





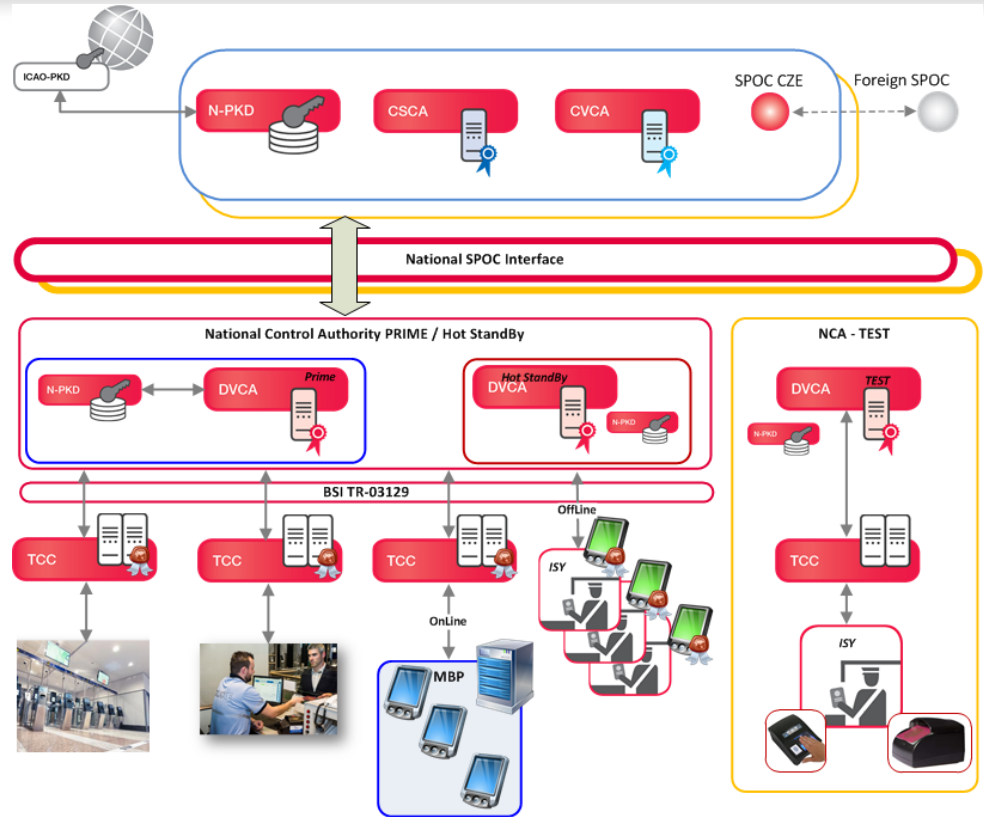
Use Cases

- Resolves challenges while checking eID travel documents
- Fingerprints can be read from the chip and verified
- International certification of DVCA
- German eID (nPA) can be used by ABC system
- PA data are available immediately within all registered IS – Terminals



Use Cases

- The eGate system ...





Use Cases

- Resolves challenges while checking eID travel documents
 - Secured sensitive data (DG3 & DG4) is available => identity of the document holder can be checked and verified
 - A set of document verification data is automatically distributed to registered inspection systems & terminals
 - Full control and supervision among all terminals
 - eGates
 - Stationary Border Control desks
 - Mobile Inspection Systems (online / offline)



Use Cases

- Fingerprints can be read from the chip and verified
 - All registered terminals can request on IS cert
 - Whole range of cryptography is supported
 - Fingerprint from foreign passport can be read and verified





Use Cases

- International certification of DVCA
 - Country SPOC interface provides communication channel with foreign CVCA
 - Request for CZE DVCA certificate from foreign CVCA is processed through this interface



Use Cases

- German eID (nPA) can be used by ABC system
 - Ability to read data from German eID (nPA) card has been successfully tested
 - Majority of registered Inspection Systems (TCCs) supports EAC 2.x protocol
 - ABC system at Prague Airport will introduce German eID as entitled travel document shortly
 - Czech Republic becomes most likely the first country (outside of Germany)



Use Cases

- PA data is available immediately within all registered IS – Terminals
 - Border Police creates their own Master and Defect List while using N-PKD submodule of NCA
 - Data from trusted resources is processed (including ICAO PKD)
 - CZE Border Police will shortly participate in Schengen Master List evaluation concept
 - All registered terminals will provide the needed data set based on TR-03135



Positive side effects

- The NCA is certified according to
 - ISO/IEC 27001:2013





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Lessons learned

- Early engagement of stakeholders
- Feasibility study helped to define project requirements
- Public tender with clear requirements
- Experienced project manager on customer's side
- Usage of the COTS product and an experienced partner allowed the project to run smoothly and more efficiently



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Questions?

Thank for your attention!



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Contact Details

Name: Col. Petr Malovec Ph.D.
Email: petr.malovec@pcr.cz