eID Services as Part of the new German ID Card Ecosystem

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The new German ID Card Features

ID CARD	New Electronic Features

Test Elektronischer Personalausweis
CeBIT 2009

Bundesministerium
des Innern

1. Biometrics
   – Digital photo and (if desired), two electronic fingerprints
   – Only legitimate authorities to assist in identification, such as Police and border control

2. Electronic ID Cards –eID
   – For E-Business and E-Government

3. Qualified electronic signature
   – Certificate subsequently reloaded onto the chip
   – Provision of certified companies (D-Trust, Telecom, S-Trust …)

The new German ID Card

eID – Data - contained

- » Surname, first name, academic title, religious name, artist name
- » Date of birth, place of birth
- » Address
- » Document type
- » Service- and card-specific identifier
- » Information on whether a given age is exceeded
- » Indicating whether a residence meets the queried city

Benefits

- » Simple and secure authentication on the Internet
- » Secure, media-processing of online services
- » Uniform standard interface
- » Alternative / Complementary marketable identification procedure
- » Certificate of Eligibility with necessity test
- » Data transmission only under the authorization certificate
- » Age verification without sending further data
- » Accuracy of personal information transferred online

The new German ID Card
How does it work?

Citizen

can proof his identity
electronically

Online-Service-Provider

can prove its identity
electronically

The service provider identifies
himself with a Certificate of
Eligibility

Both, Citizens as well as Online–
Service Provider can rely on the
electronic identity proof protect each
other from identity theft.

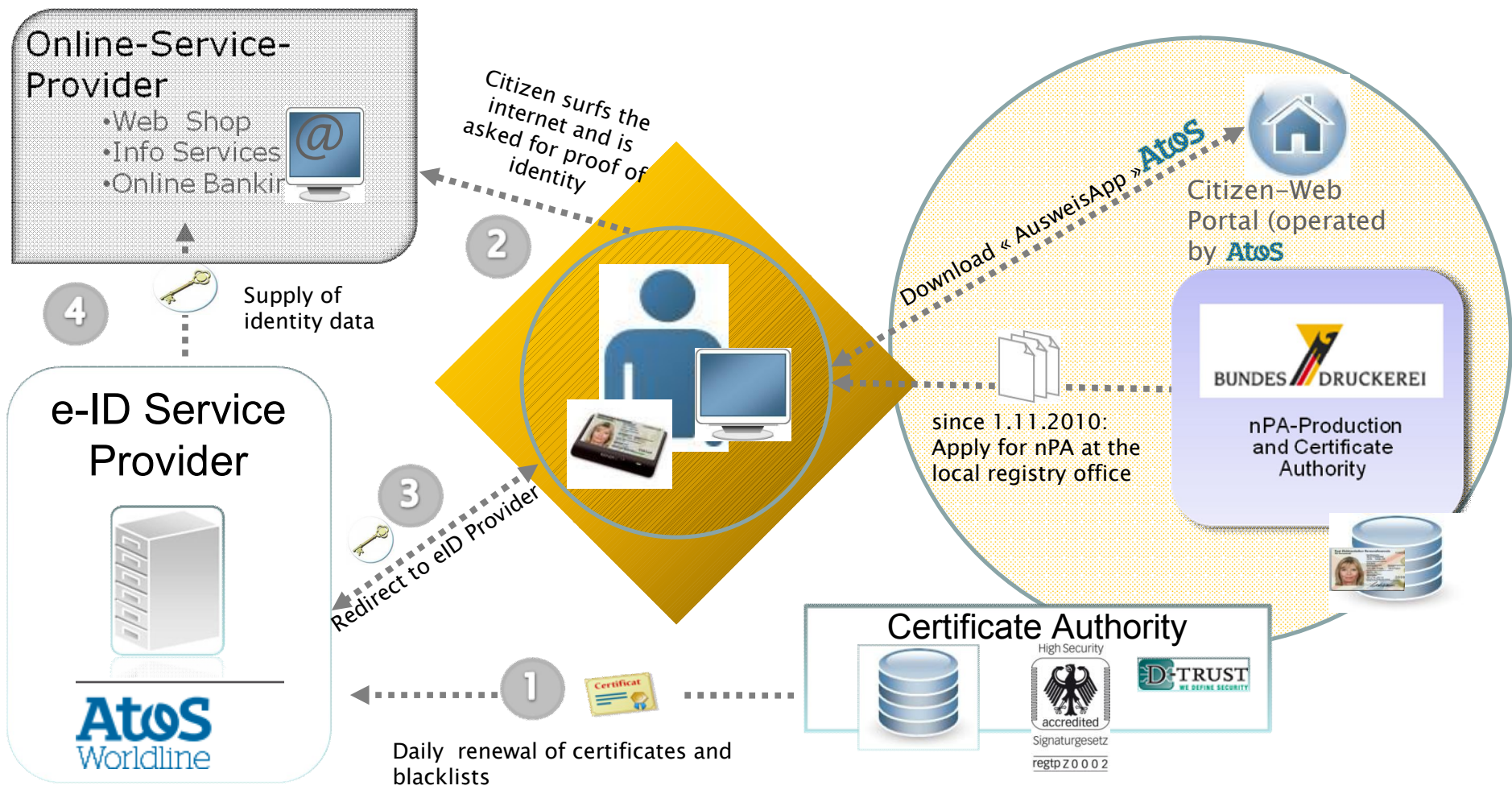The citizen identifies himself with
his new ID card

Source BMI

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Retrieval of eIDs from the new ID Card

Online-Service-
Provider
- Web Shop
- Info Services
- Online Bankir

Citizen surfs the internet and is asked for proof of identity

2

Supply of
identity data

4

e-ID Service
Provider

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3

Redirect to eID Provider

Certificate Authority

1

Certificat

Daily renewal of certificates and blacklists

Download « AusweisApp » Atos

Citizen–Web
Portal (operated
by Atos

BUNDES DRUCKEREI

nPA-Production
and Certificate
Authority

since 1.11.2010:
Apply for nPA at the
local registry office

High Security

accredited
Signaturgesetz

regtp Z 0 0 0 2

D-TRUST
WE DEFINE SECURITY

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AtoS as eID Service Provider
What is the Role?

► Subcontractor for online-service-provider

► Support Online-Service-Provider to apply for a certificate at VfB (Vergabesteller für Berechtigungszertifikate)

► Connect to CA

► Receive renewed certificates and blacklists at least every 24h

► Show the certificate of the online-service-provider to the nPA(user)

► Receive the eID data form the nPA

► Deliver the ID-data to the online-service-provider

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Players of the German eID Ecosystem

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- ► Ministry of Interior Affairs (ID-Card Act, card issuer)
- ► VfB Vergabestelle für Berechtigungszertifikate (approval to issues certificates)
- ► BSI – Federal IT Security Agency (technical specs)
- ► Ministry of Finance (money washing act)
- ► Bundesdruckerei (card procuction, personalization)
- ► Local Registry Offices (application für ID Cards)
- ► Certificate Authorities (issuing and renewal of certificates)
- ► Online Service Provider (asking for identification)
- ► IT Service Providers
  - – System Integration for Online Service Providers
  - – Operate the Citizen Web Portal
- ► Software Editors
  - – Platforms
  - – Clients
- ► Card Reader Producer
- ► **eID Service Provider**

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Players of the German eID Ecosystem
## (the eID Service Provider must interact with)

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▶ **eID Service Provider**

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Become an eID Service Provider
What does it require?

► Apply an Information Security Management System (ISMS)

► Have the ISMS certified according to ISO 27001
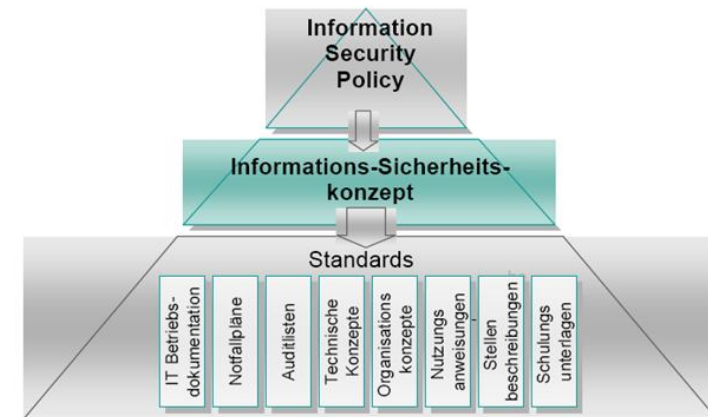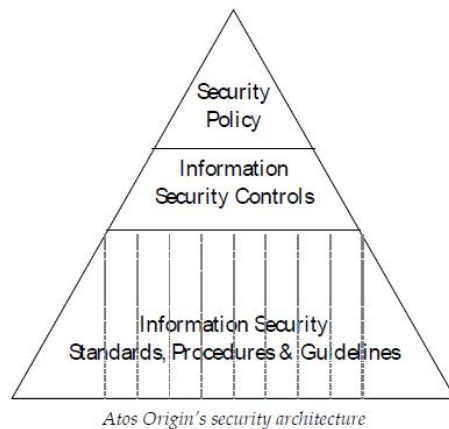
► Operate an eID Platform according to ISMS

  – E.g. Supplier audit

  – S/W review

► Operate an eID Platform according to client needs

  – E.g. Availability

  – Tx speed

The nPA applied

► Potential online service providers **, who have** to proof the identity of their clients
   – Online opening of bank accounts (money washing law)
   – Online application for credit cards (money washing law)
   – Identity proof according to telecommuncions law
   – Proof of majority age

► Potential online service providers , who **wish to** proof the identity of their clients
   – Login to web portals 100% authenticity – free of phishing
   – Issue of a direct debit mandate
   – Address proof for online shops
   – Proof of authenticity in 3D-secure card transactions

► http://www.ccepa.de/onlineanwendungen

Transactional services. **Powering progress**

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Lessons Learned

► Market penetation goes slower than expected

► Providers of online services could operate their own eID service, but reality showed, that most service providers have eID service providers contracted

► eID service providers are the multipliers in the markets

► Don't expect a killer use-case/application

► The Ministry of Interior, responsible to issue ID Cards, has limited marketing resources.

► Discussion around dataprotection/privacy was more intense than expected (bad press)

► The German entry level for BerCAs ist too high

    – too many parties lead to long implementation time

    – too many parties to be contracted to start the service

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Thank you

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