Austrian eID and its road to eIDAS

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2016

From national eID to eIDAS

When Austria introduced its Citizen Card through the eGovernment Act in 2005, this included elements that now become European standard through eIDAS

- *Electronic representation of (natural/legal) persons*
- *Legal recognition of foreign eID schemes (11 MS)*
- *Seamless integration of foreign person identifiers*
- *Remote signing services (qualified from 2009)*

The talk will focus on how this experience, together with lessons learned through participation in Large Scale Pilots (STORK), helps AT preparing for eIDAS

Disclaimer: national legal provisions are in progress

Presentation Outline

- **eID in Austria – before eIDAS**
- What worked well, what needed some reconsideration
- What will change with eIDAS

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Austrian Citzen Card - Overview

Launched 2003, mass-rollouts from 2005

Defines functions, not the technology

- Identification, *sector-specific to enhance privacy*
- Qualified signatures, *for written form*
- Electronic mandates, *representation*

Technology-neutral approach

- Smartcards and mobile from 2005
- Foreign eID integration from 2008

The technologies

Smartcard

Bank cards
from 2005; ceased

Health insurance card
since 2005

Profession cards, service cards, …
e.g. notaries, lawyers, ministries, …

Mobile

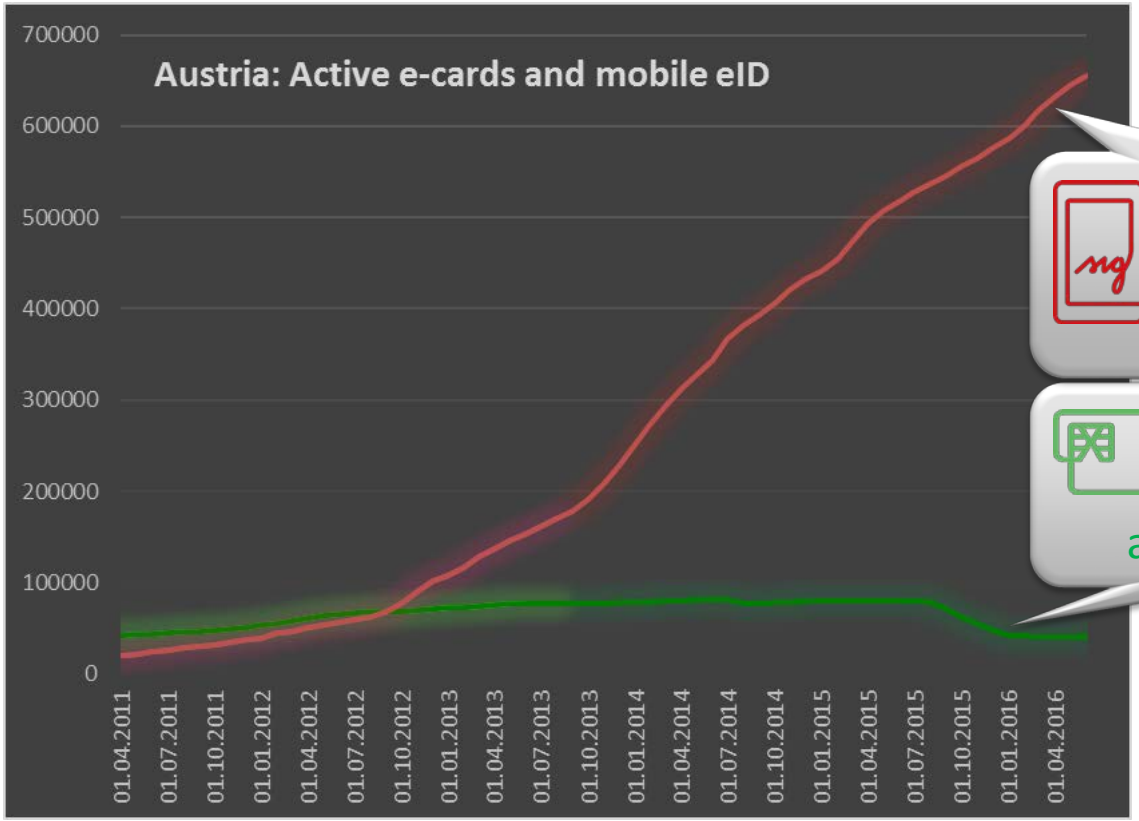
A1 signature
service by a MNO
from 2005; ceased in 2008
limited success

Mobile phone signature

Launched end 2009 through the LSP STORK
Contracted by gvmnt. to a private sector CSP

Success? Well, let's see …

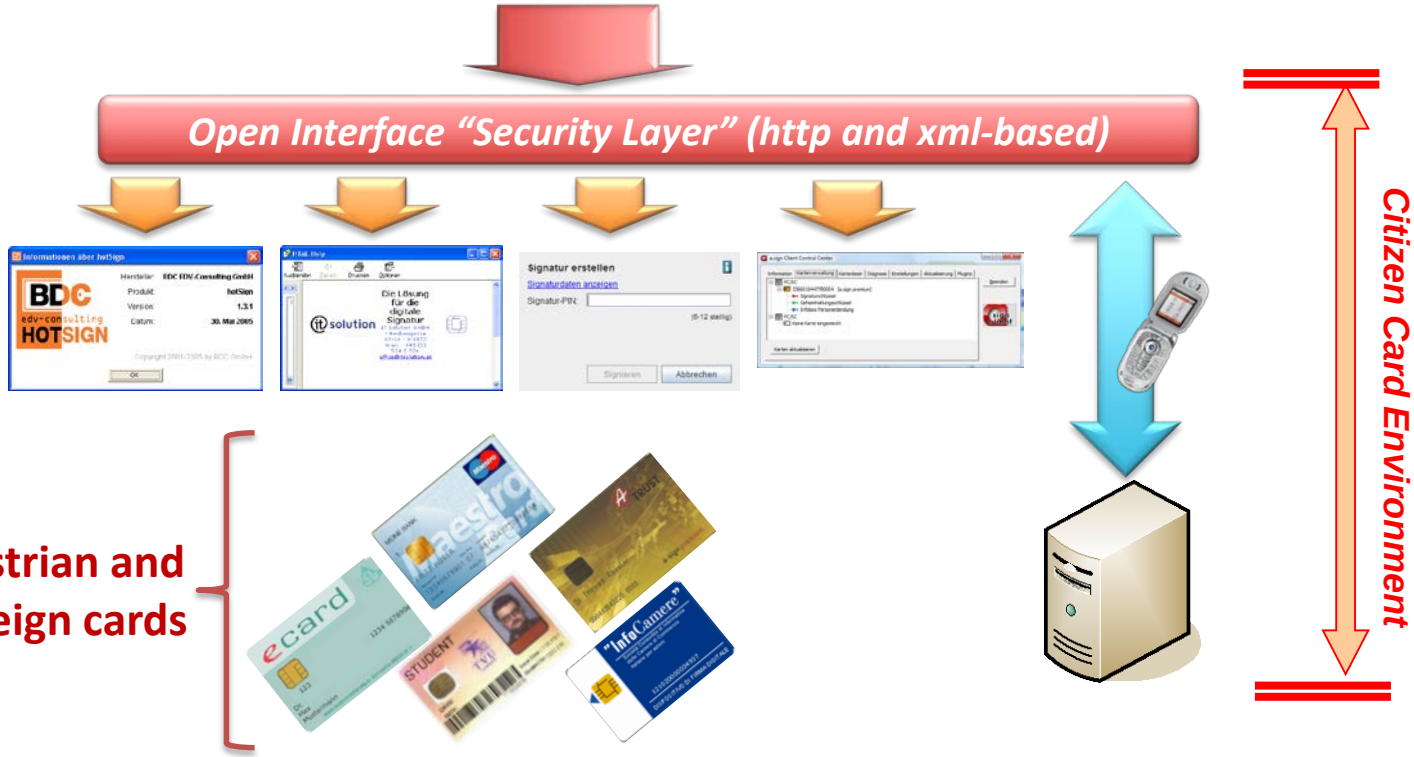
Smartcards vs. mobile signatures in AT



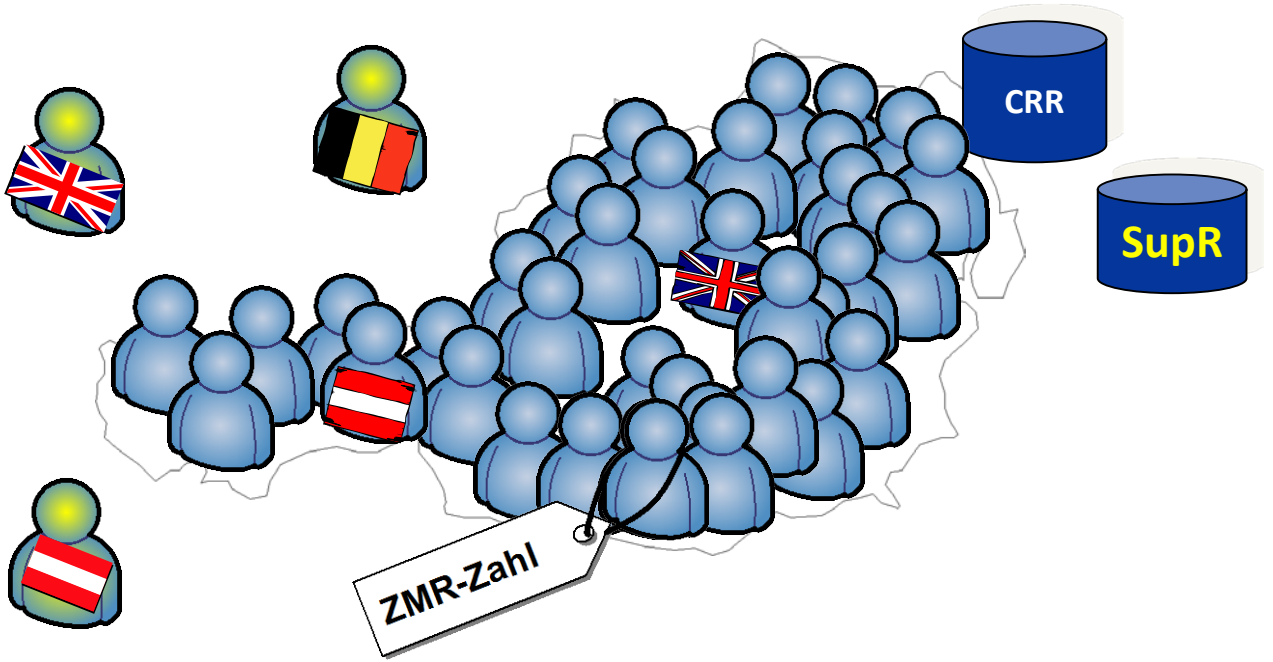
MobileID ~1k new users per workday

Health card, ~1,3 k eID activations/month

Integration of token technologies



The basis is the Registers

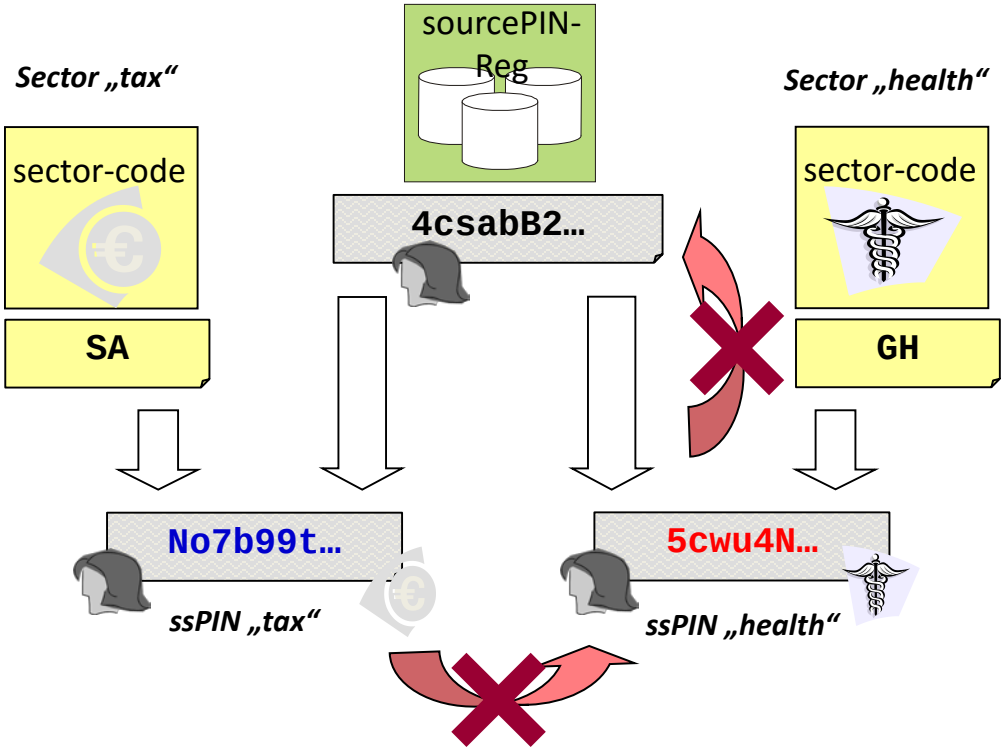


Each resident has a unique number (ID) „ZMR-Zahl“ in the Central Register of Residents (CRR)

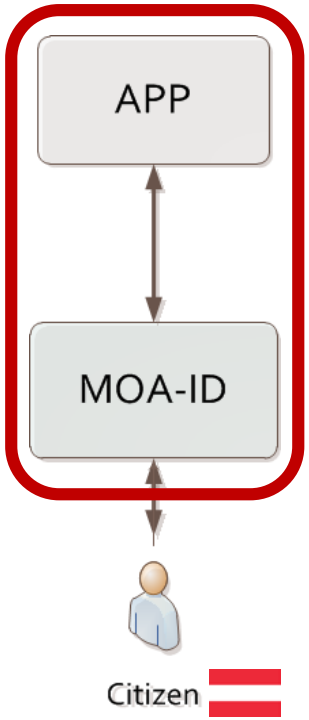
A Supplementary Register (SupR) for expatriates and foreigners

Source: Thomas Rössler

Sector-specific identifiers

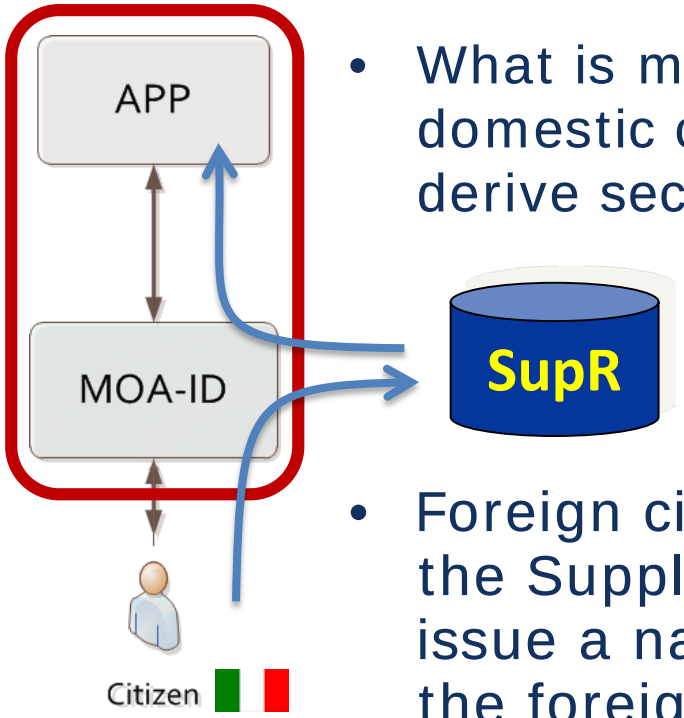


Middleware Model



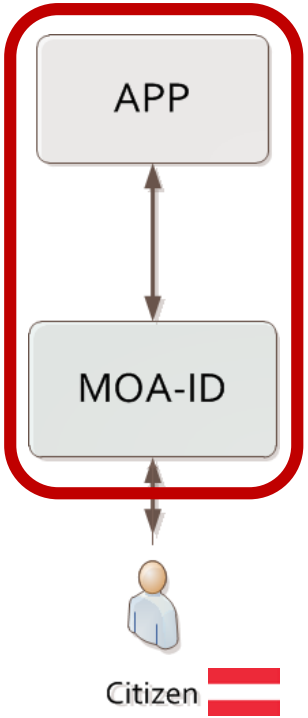
- Application wants to authenticate a citizen
- Application operates an integration module (middleware MOA-ID)
- The authentication data is held in the citizens eID (smartcard or by a service provider for mobile ID)

How were foreign eIDs integrated?



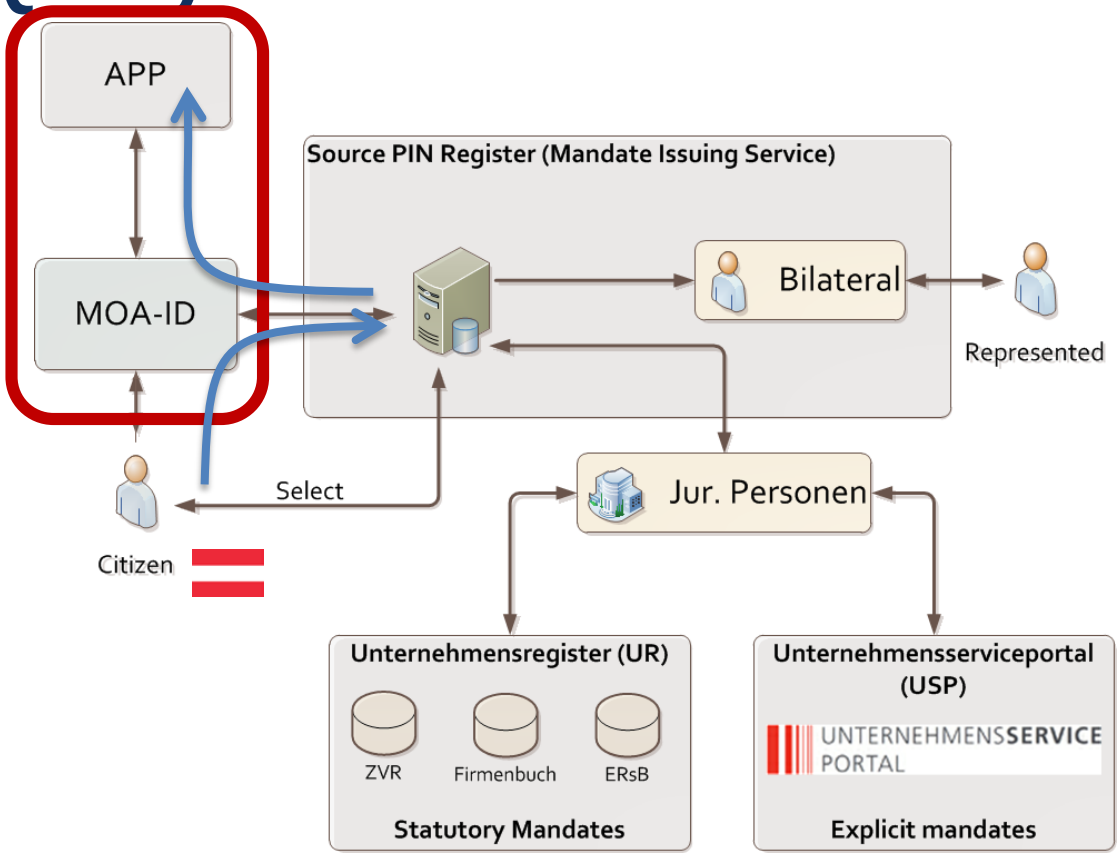
- What is missing compared to the domestic case is the source PIN to derive sector specific PINs
- Foreign citizens get registered to the Supplementary Register to issue a national source ID, using the foreign identifier as a key

How is representation managed?



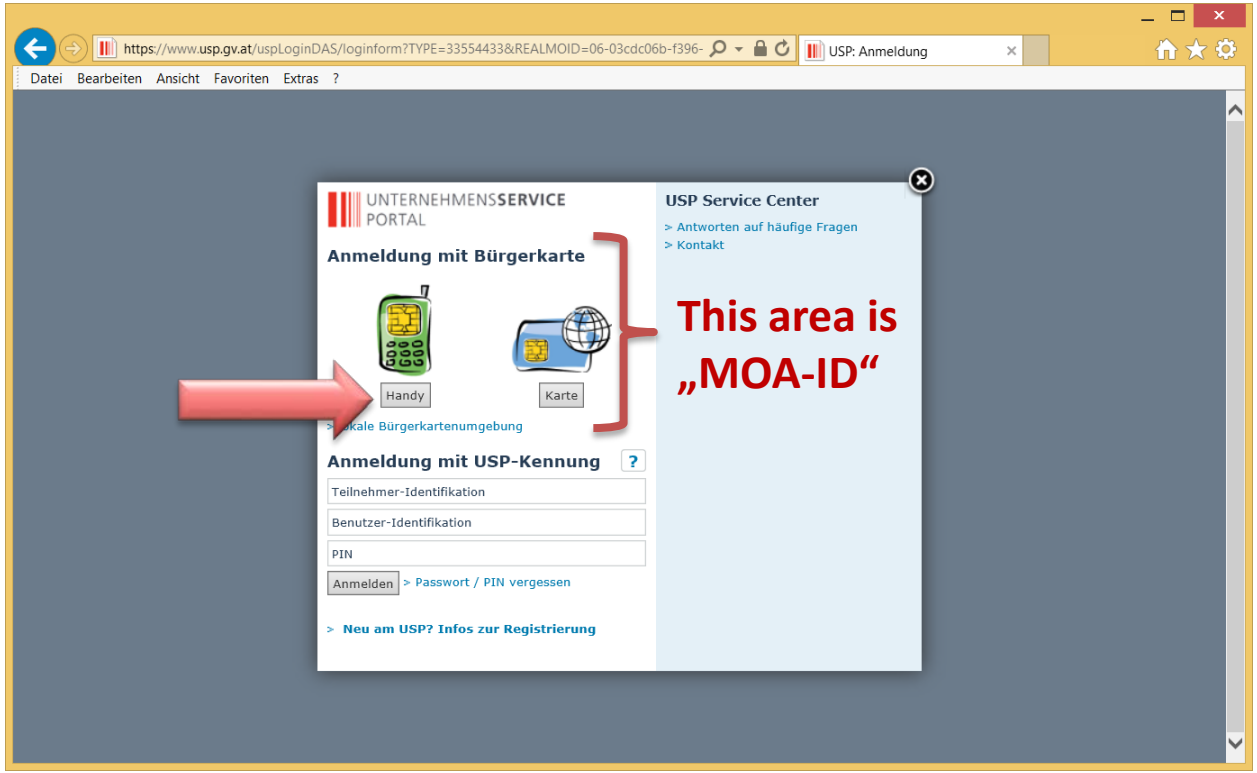
- A link between the person and the legal an natural persons she represents is needed:
  - For legal persons this is held by authoritative sources (e.g. Company Register)
  - For natural persons, a mandate register has been created

Query authoritative sources

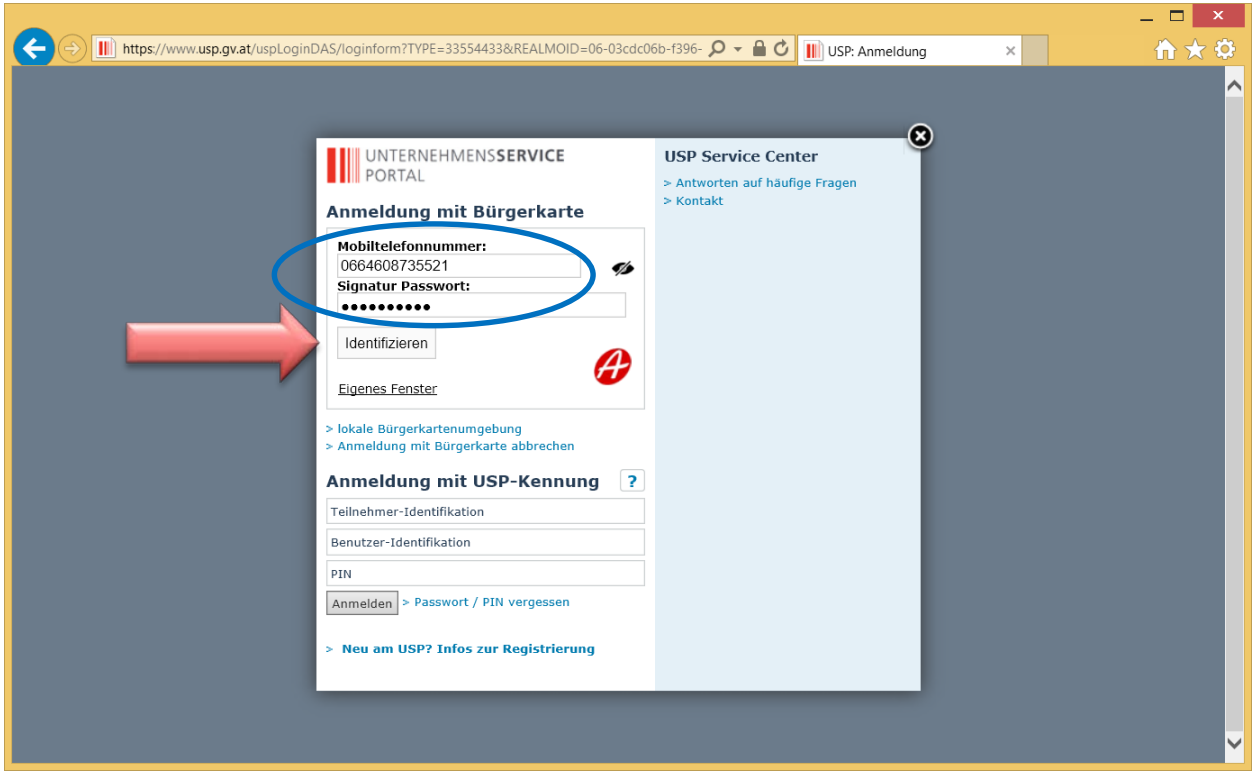


Demo – Business Service Portal

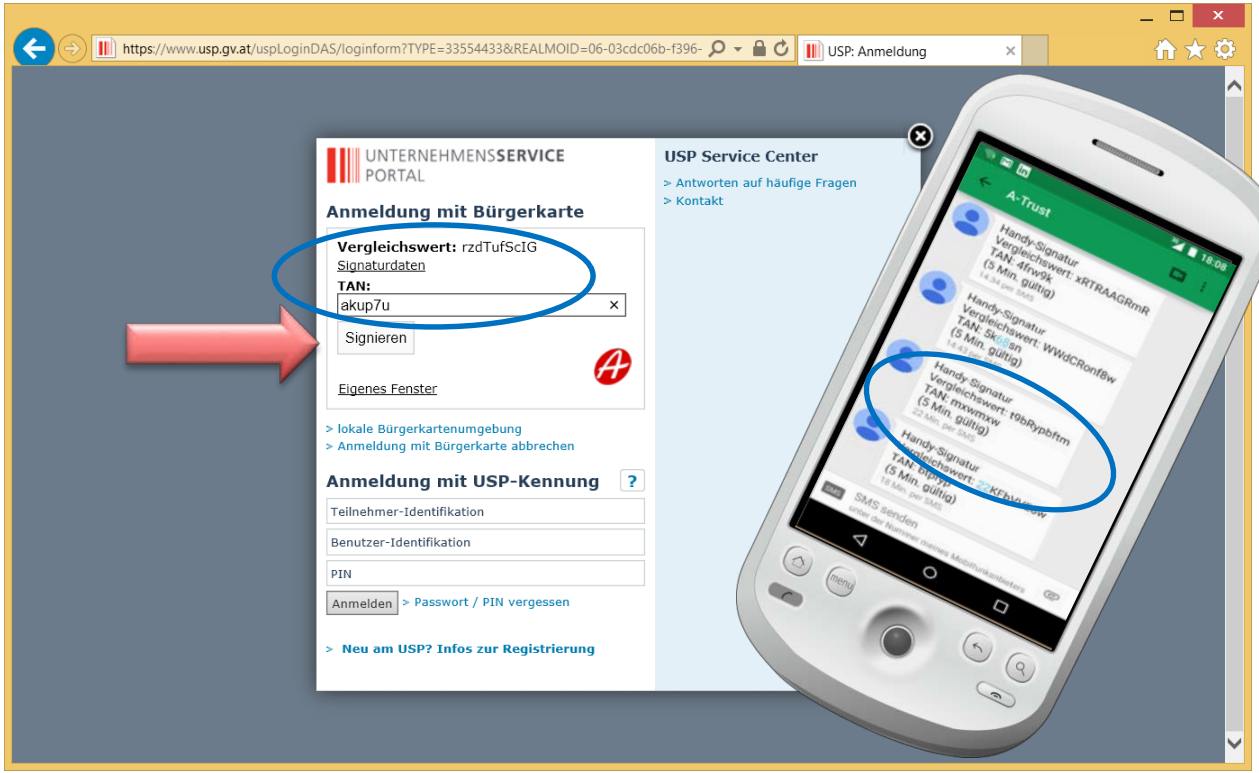
Demo – Select Card or Mobile ID



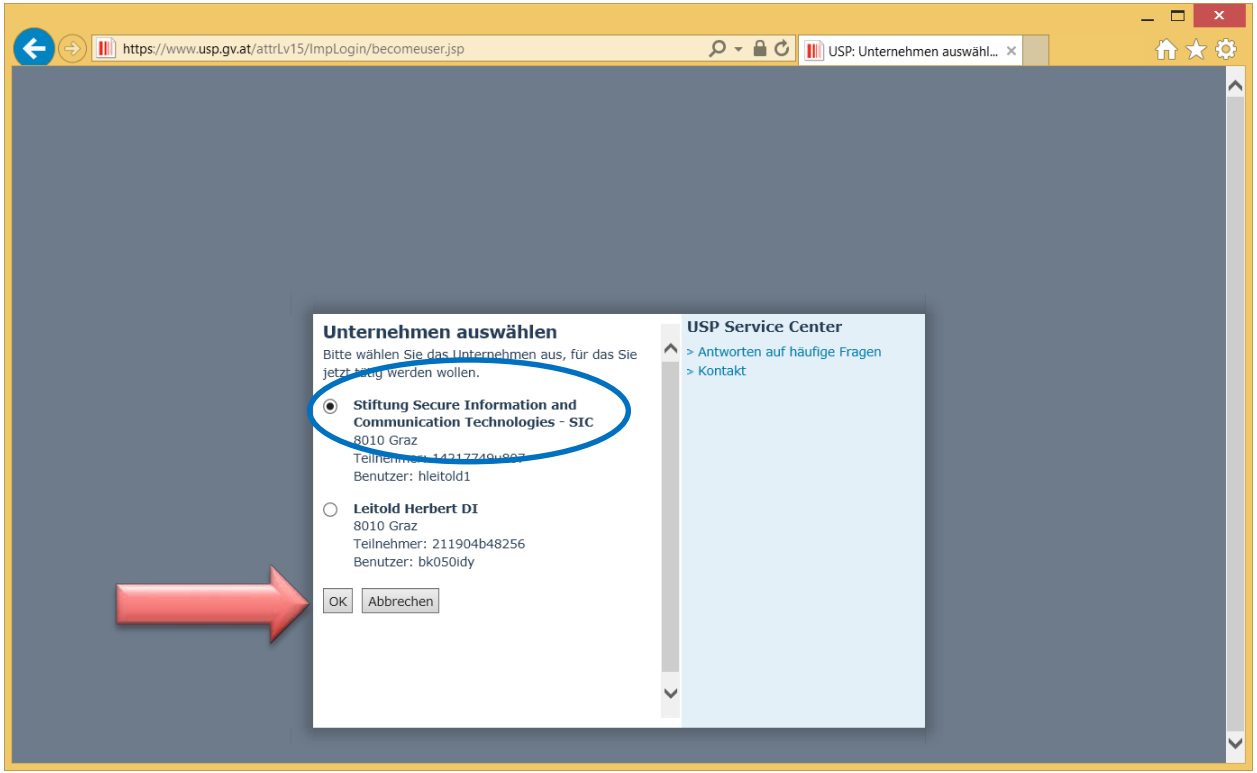
Demo – Mobile ID dialogue



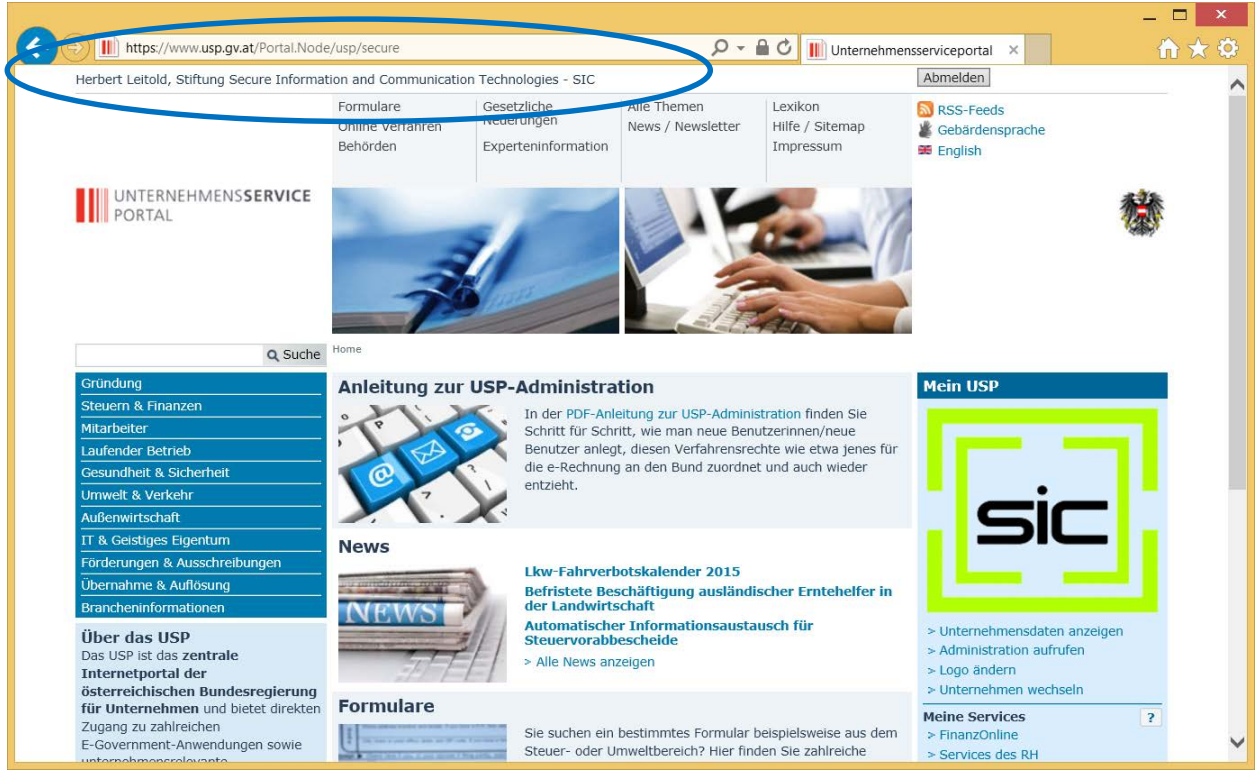
Demo – Proof of possession



Demo – Representation



Demo – Done


https://www.usp.gv.at/Portal.Node/usp/secure
Unternehmensserviceportal
Herbert Leitold, Stiftung Secure Information and Communication Technologies - SIC
Abmelden
Formulare
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Behörden
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Neuerungen
Experteninformation
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Impressum
RSS-Feeds
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Suche
Home
Gründung
Steuern & Finanzen
Mitarbeiter
Laufender Betrieb
Gesundheit & Sicherheit
Umwelt & Verkehr
Außenwirtschaft
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Förderungen & Ausschreibungen
Übernahme & Auflösung
Brancheninformationen
Über das USP
Das USP ist das zentrale Internetportal der österreichischen Bundesregierung für Unternehmen und bietet direkten Zugang zu zahlreichen E-Government-Anwendungen sowie
Anleitung zur USP-Administration
In der PDF-Anleitung zur USP-Administration finden Sie Schritt für Schritt, wie man neue Benutzerinnen/neue Benutzer anlegt, diesen Verfahrensrechte wie etwa jenes für die e-Rechnung an den Bund zuordnet und auch wieder entzieht.
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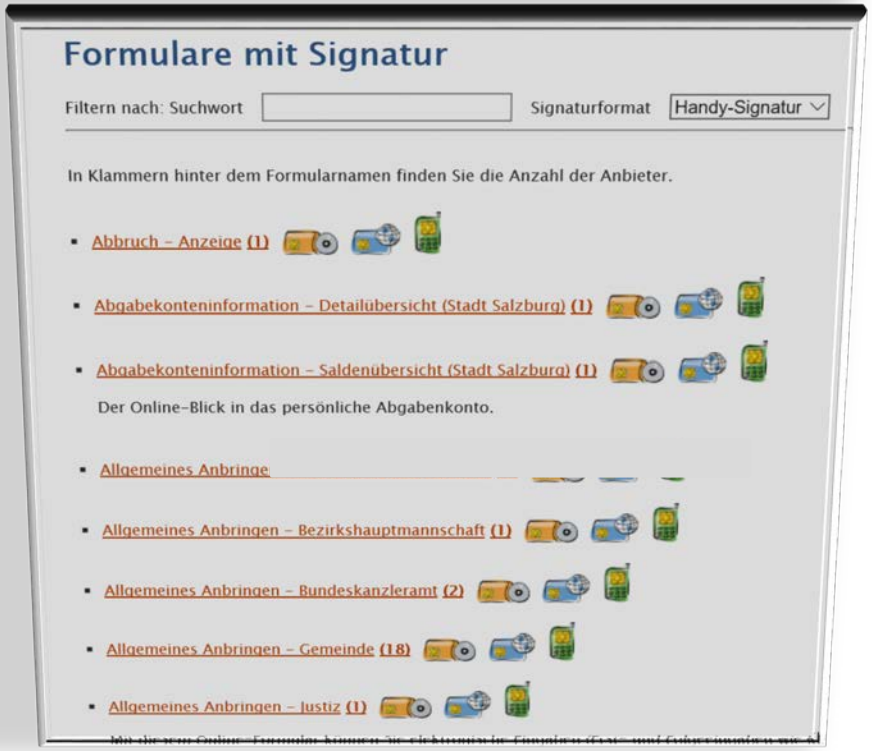
> Unternehmen wechseln
Meine Services
> FinanzOnline
> Services des RH

Some 300+ applications

https://www.buergerkarte.at/en/applications-mobile.html



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- What will change with eIDAS

2016

Lessons learned 1/2

Smartcard eID

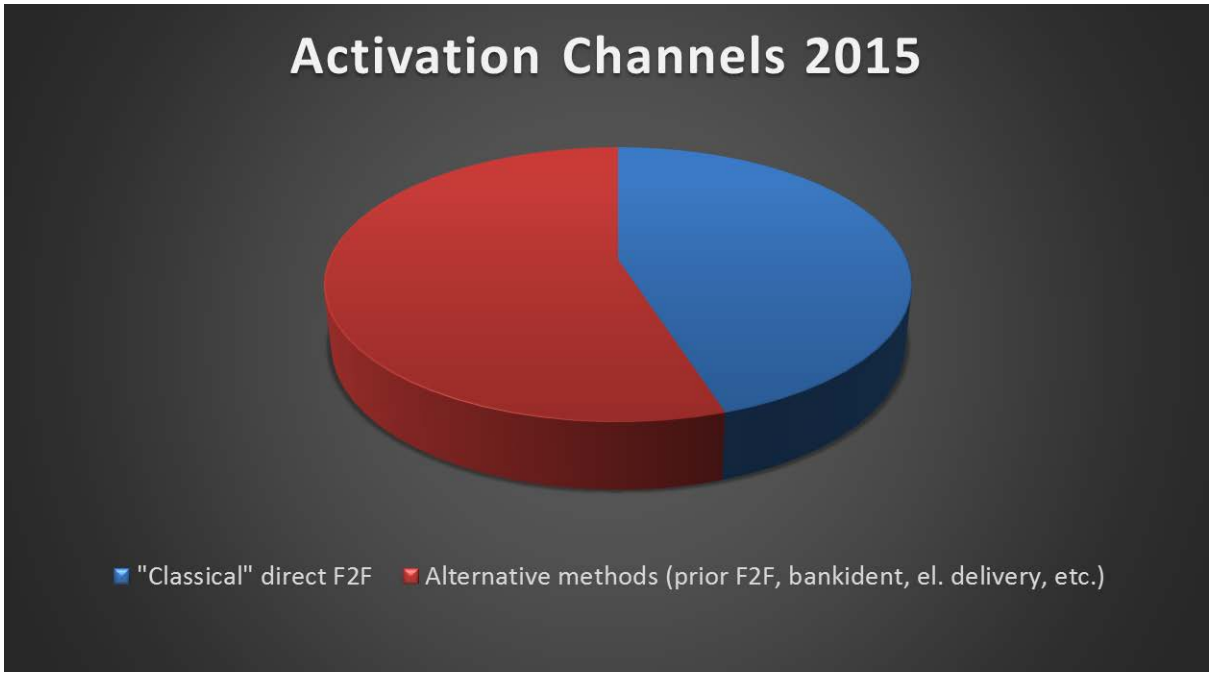
- Satisfactory business users take-up
- But quite limited take-up by citizens

Mobile signature a clear preference by citizens

- 2014/15: 15/10 times higher mobile ID activation to health card activation
  - Under comparable conditions like free of charge

Ease of use and easy activation essential

Joice of convenient registration is essential



Lessons learned 2/2

- Integrating foreign tokens on our own is effort
  - also lacking easy access to specifications, test tokens, information on new developments, …
- Middleware deployment in other MS needs to be well prepared and made easy
  - will be made available as a VM in eIDAS
- Some shortcomings of STORK eliminated in eIDAS
  - eIDAS specifications closer to standards
  - Improvements on domain-specific attributes
  - etc.

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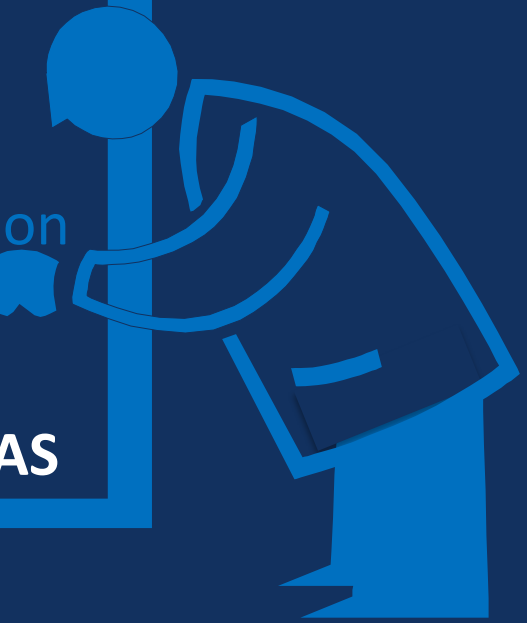
- **What will change with eIDAS**



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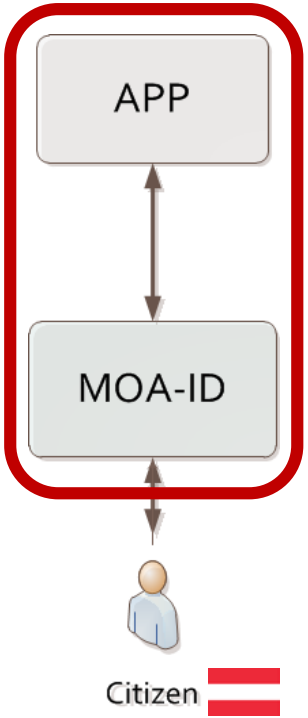
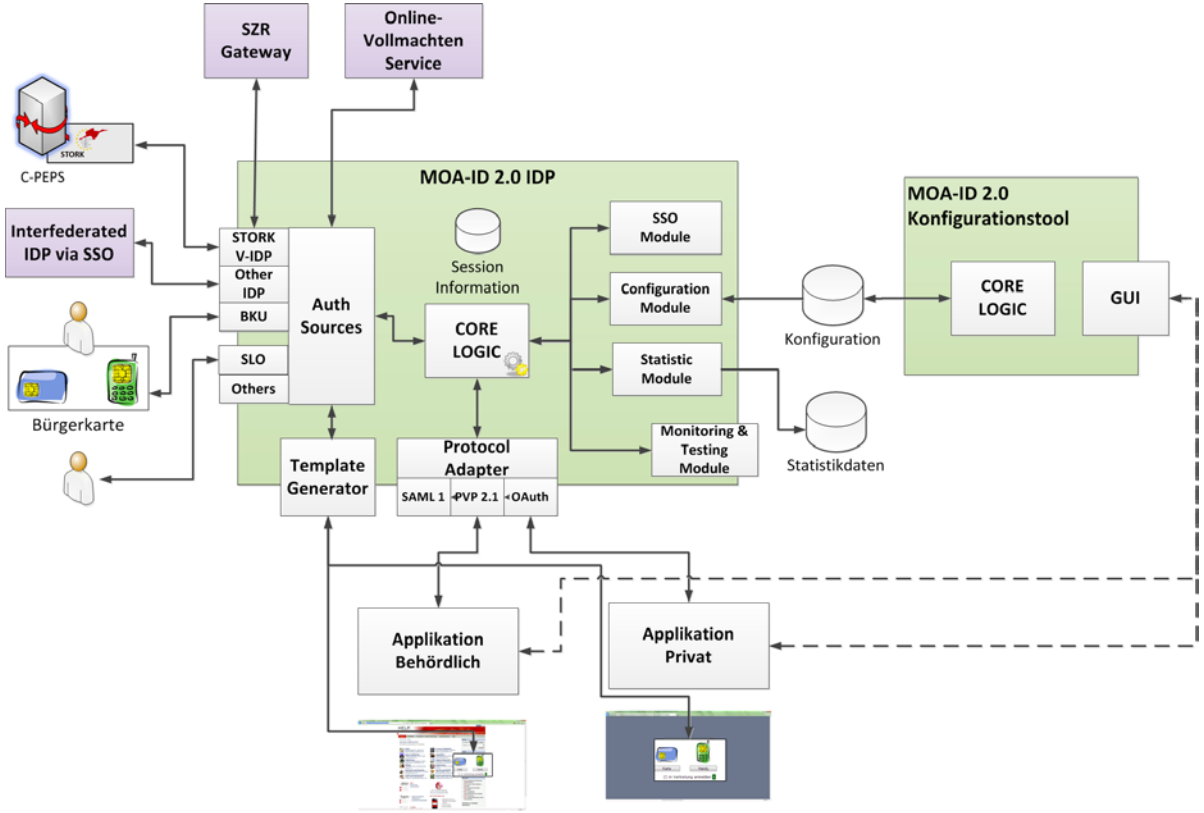
The overall concept can remain

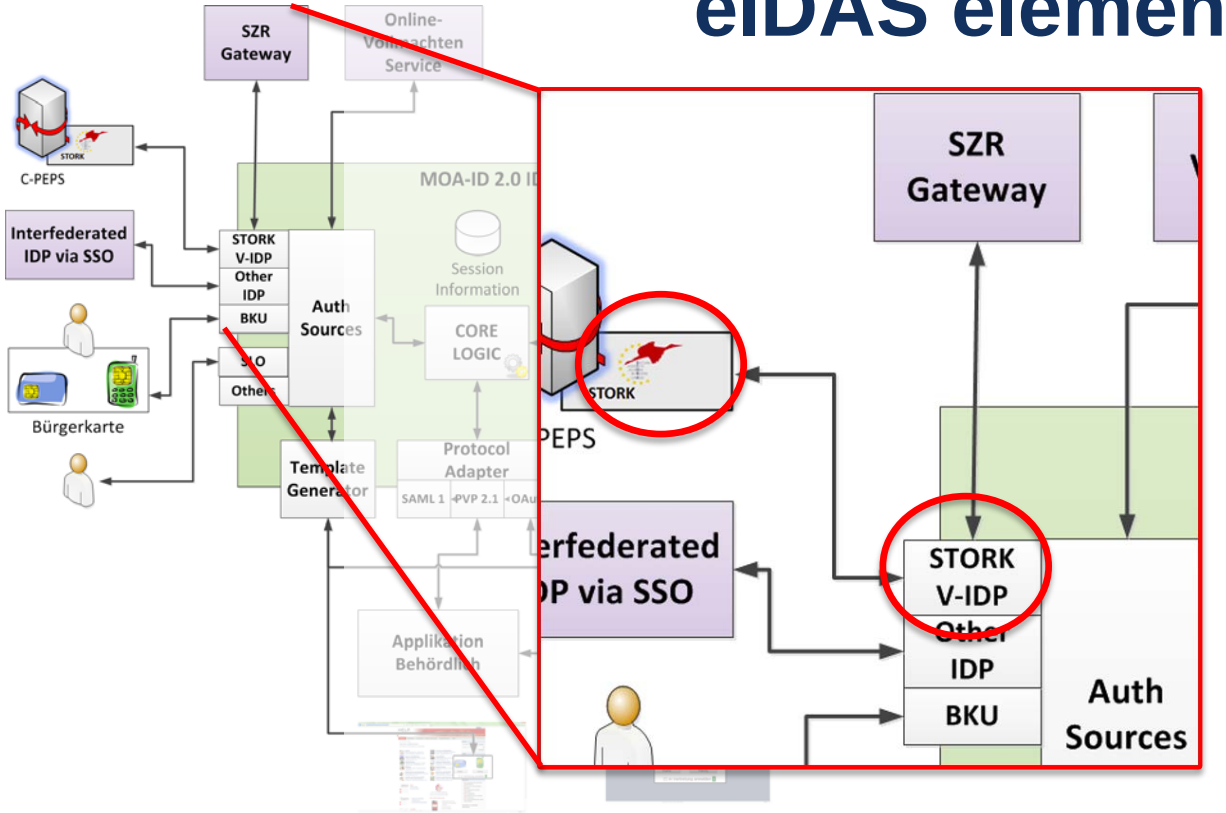


- The middleware MOA-ID gets extended by the eIDAS cross-border protocol

An AT eIDAS node has several interfaces



STORK developments gets changed to eIDAS elements



The End

- Thank You for Your Attention

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