

# eIDAS Identity Matching in Austria

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CEF Identity Matching Webinar,  
April 24<sup>th</sup>, 2019



# Contents

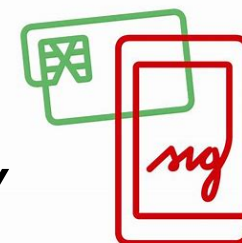
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- Austrian eID, Registers, ssPIN
- Identity Matching so far
- Identity Matching with eIDAS
- Lessons learned, Challenges

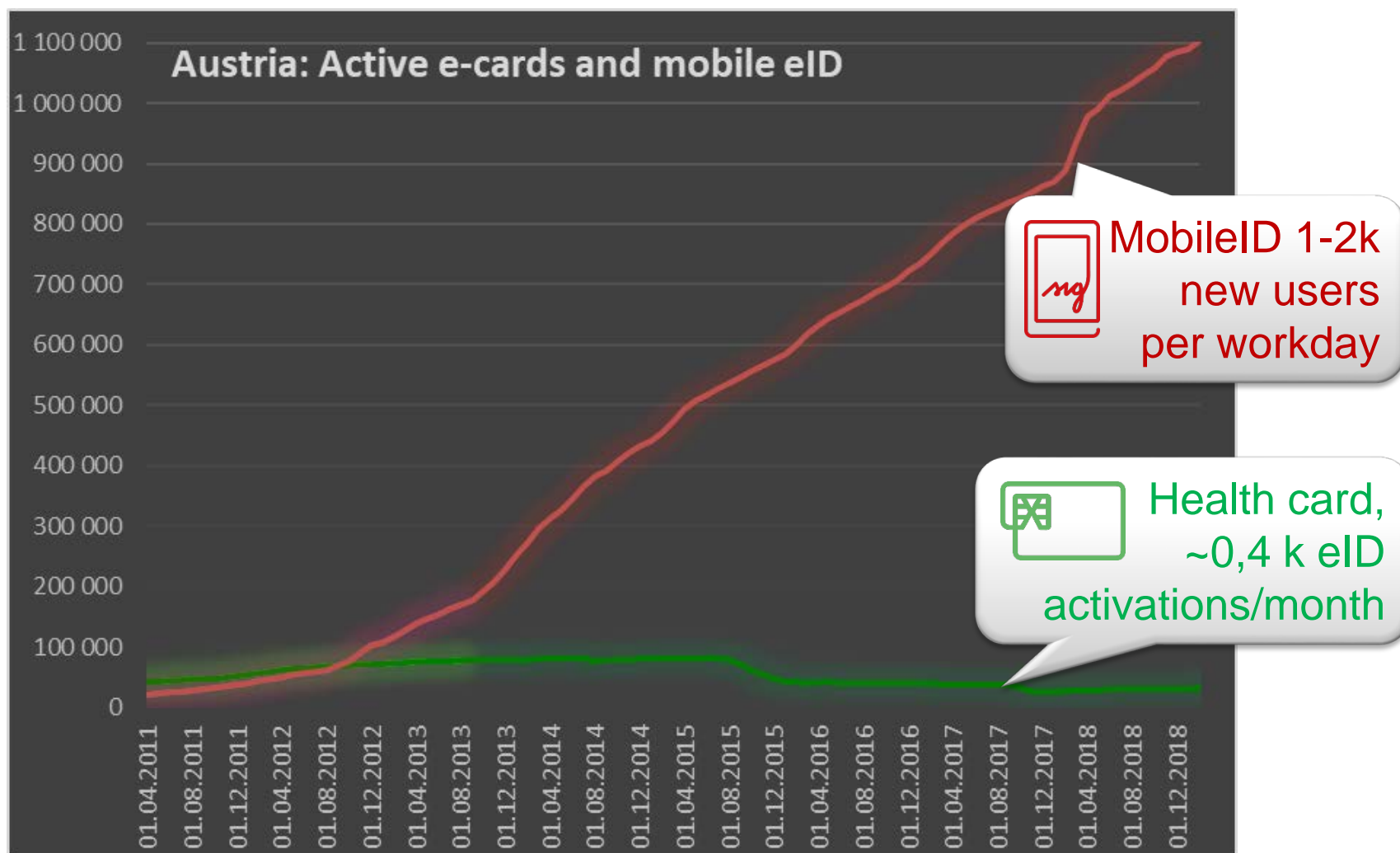


# The Past/Present: Austrian Citizen Card

- Launched 2003, mass-rollouts from 2005
- Defines functions, not the technology
  - Identification, **sector-specific** for privacy
  - Qualified signatures, *for written form*
  - Electronic mandates, *representation*
- Technology-neutral approach allowed for different implementations
  - Smartcards and mobile from 2005



# Austria: Card vs mobile ID active users



# The Future: AT E-ID (*work in progress*)

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- Revisited enrolment
  - F2F at passport issuance authorities
- Advancing and improving use
  - Authentication service at Ministry of Interior
    - Also operating eIDAS Nodes (Service / Connector)
  - Emphasis on mobile use
  - Further attributes from authoritative sources
  - Still relying on **sector-specific identifiers**
    - robust eIDAS matching for seamless integration with AT public and private relying parties is essential

# The Basis: Registers

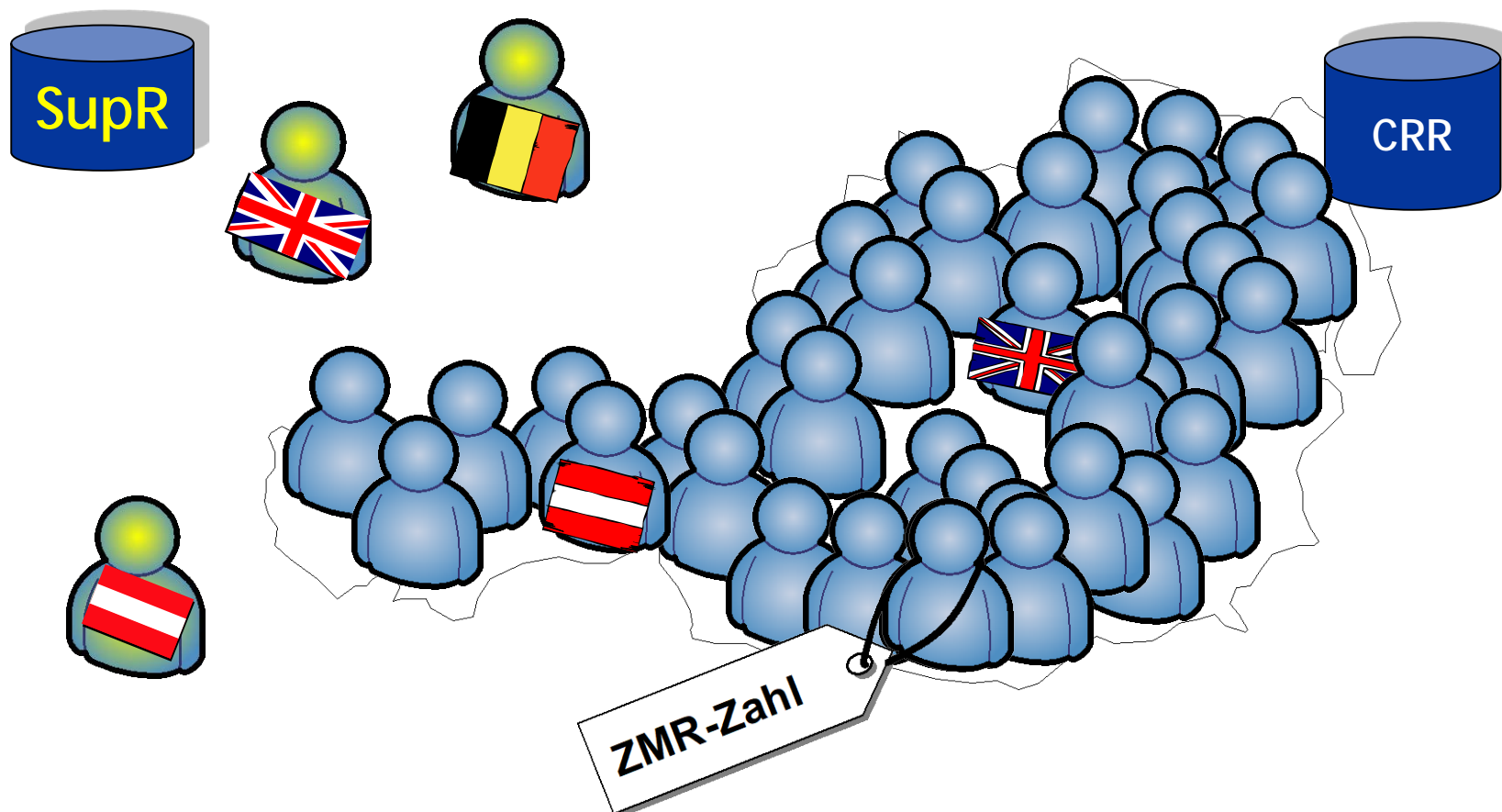
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- For natural persons
  - Central Register of Residents (CRR; ZMR)
    - All persons having residence in Austria
  - Supplementary Register Natural Persons (SupR; ERnP)
    - Used to enrol expatriates or foreigners
    - **Core component** for eIDAS Identity Matching

⇒ both CRR and SupR are used to create “SourcePINs”
- For legal persons
  - Central Register of Company Names (*Company Register*)
  - Central Register of Associations
  - Supplementary Register of Other Persons (ERsB)

⇒ Similar concepts apply (not presented in this Webinar)

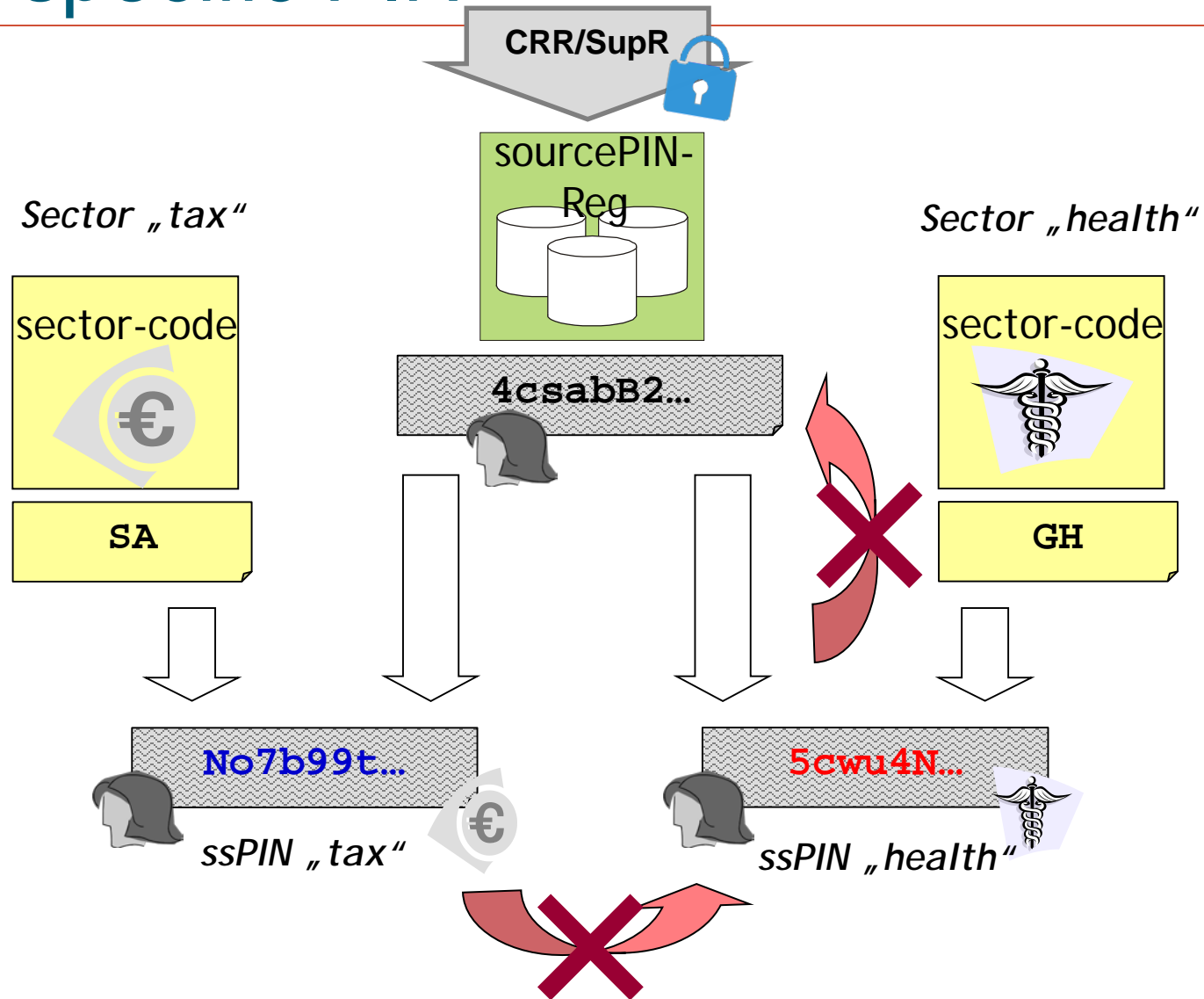
# Central Register of Residents



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

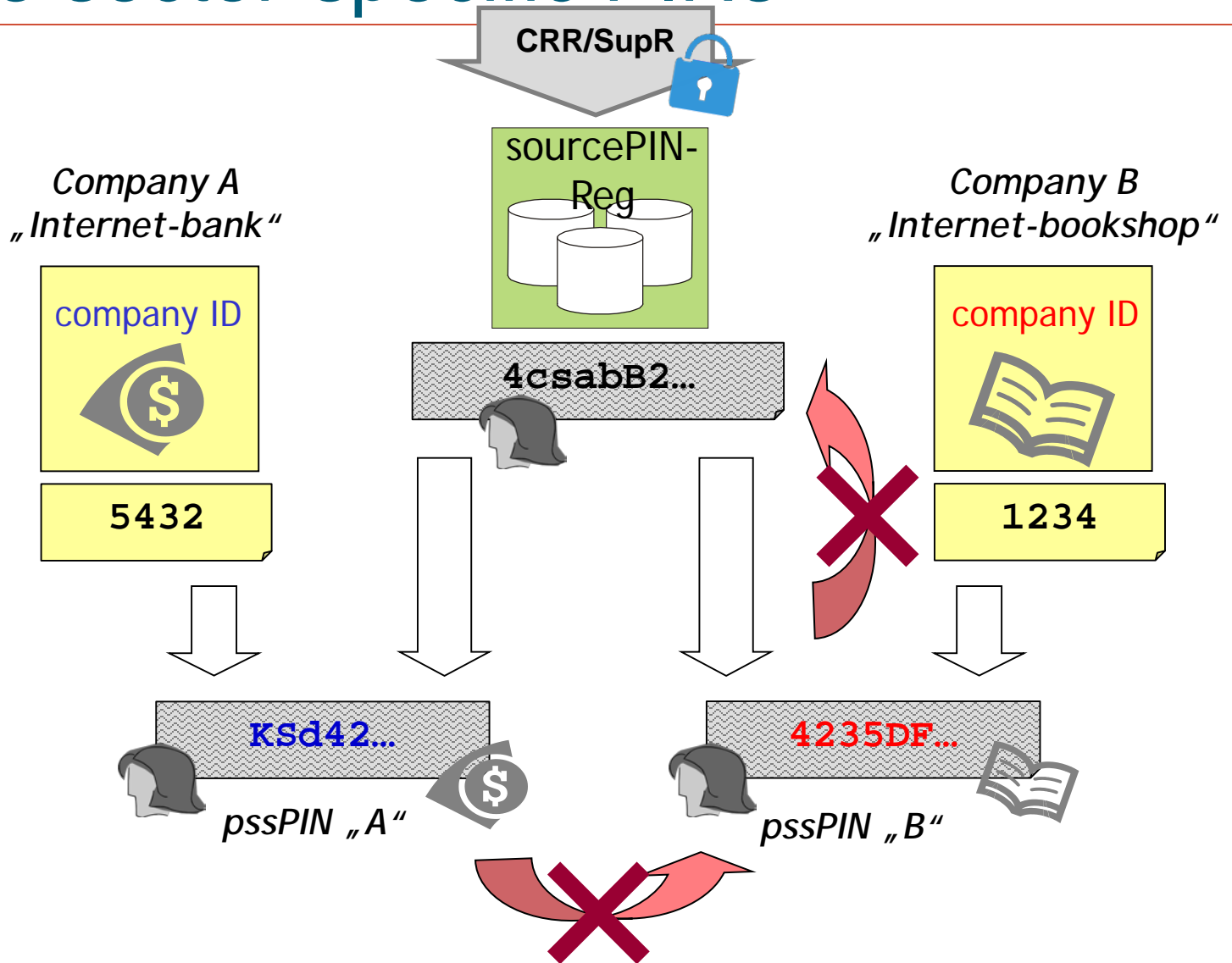
Source: Thomas Rössler

# Sector-specific PIN

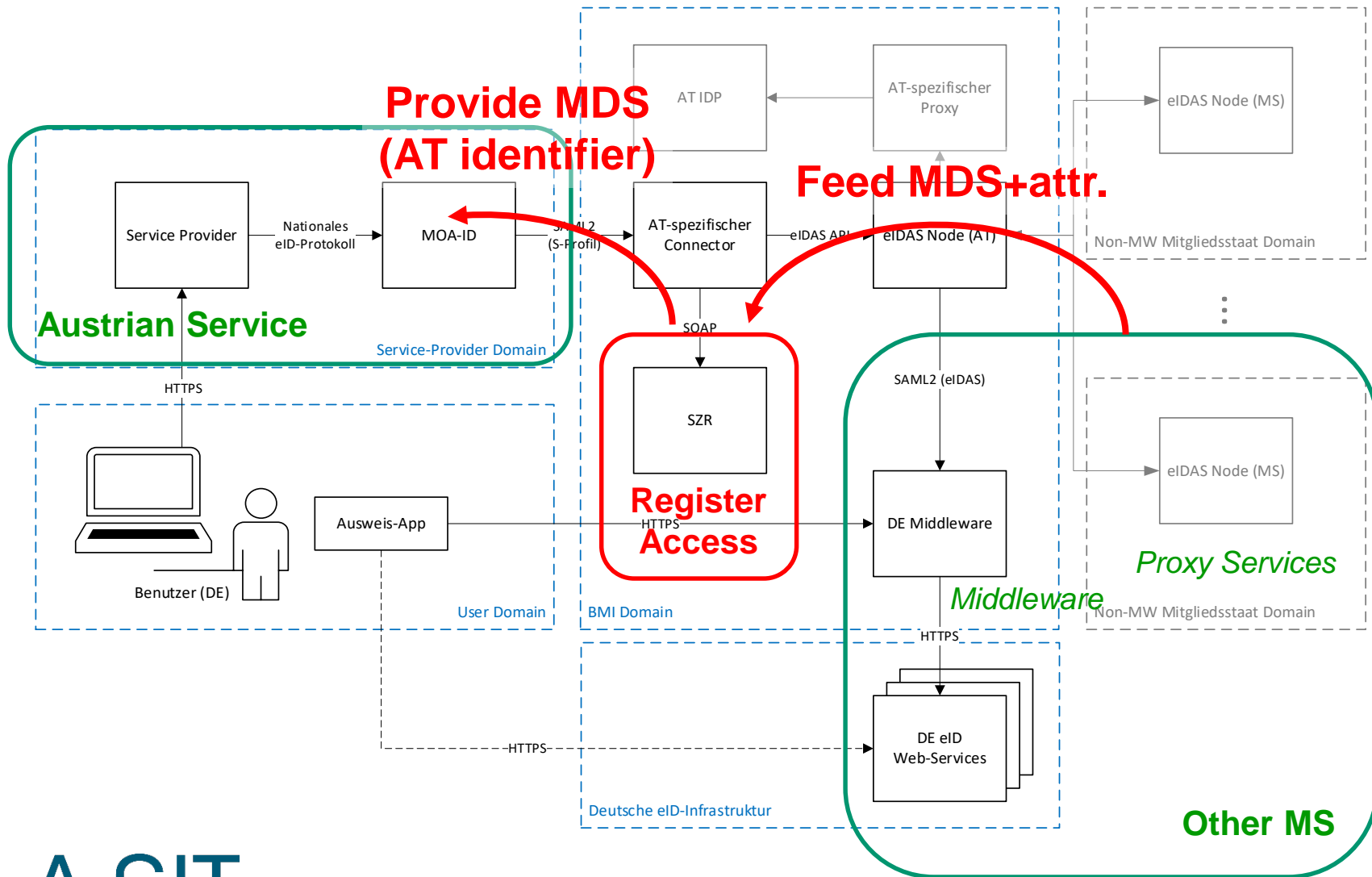




# Private sector-specific PINs



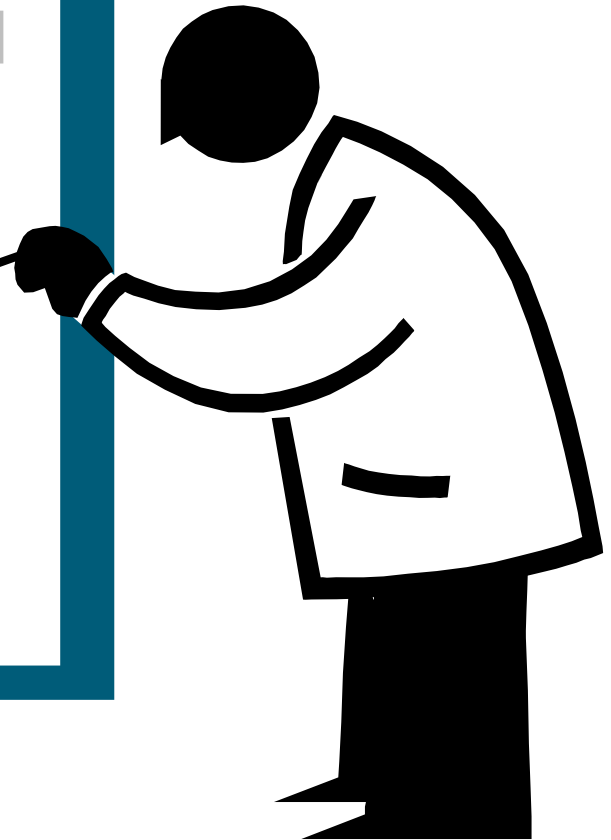
# Austrian E-ID and eIDAS Architecture



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# Foreign identity matching before eIDAS

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- Legal basis for foreign eID recognition since 2008
  - Foreign eID could be declared equivalent to an AT eID  
*“... if the application is provided with a qualified electronic signature which is linked to an equivalent electronic verification of that person’s unique identity in his or her country of origin.”*
  - 11 such foreign eIDs (BE, EE, FI, IS, IT, ...) integrated through national middleware and STORK
  - Assumed persistent unique identifier and some attrib.

# Process for pre-eIDAS identity matching

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- During authentication
  1. Query CRR and SupR for attributes
    - Name and other available attr. (DoB, gender, place of birth, former name(s), ...)
    - unique persistent identifier indicates, if person already enrolled
  2. Either enroll in SupR (and assign Austrian SourcePIN) or retrieve the (already assigned) SourcePIN
    - Used to create the sector-specific identifiers, like for AT citizen
- Notes on the pre-eIDAS identity matching
  - Relied on persistent identifiers of foreign eID
  - Citizen declaration on not being enrolled in CRR/SupR

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# Process for eIDAS identity matching

- Similar to pre-eIDAS process, but
  - no citizen declaration on CRR/SupR status
    - Need confidence, if person known in AT or needs to be enrolled
    - 192k DE, 80k HR, 42k SK, 30k IT, 14k CZ citizens (Jan. 2019)
  - we need a persistent data set
    - either persistent eIDAS ID (EE, HR, ...) or optional data (DE)
    - cf. AT position paper in CN on IT SPID-ID vs. attributes
- Process:
  1. Query CRR/SupR to find a match or enrol in SupR
  2. AT national identifier issued and used
    - eIDAS data is a reference to CRR/SupR data

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# Lessons learned

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- Still learning from each MS integration
  - e.g. DE name at birth: single string, hard to identify first name(s) and family name(s)
  - e.g. IT SPID-ID vs. tax identifier
- Clearing processes not yet finally defined

# Challenges

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- Notifying MS knows attributes giving uniqueness
  - Might need more attention in pre-notif. and peer-review
  - cf. AT paper in Cooperation Network on SPID case
- Several identifiers, even if uniqueness nationally
  - Needs clear documentation how receiving MS can distinguish the same / other persons with same attr.-set
- Different identifiers for public and private SPs
  - CZ position for cases (like in AT) where the eIDAS identifier is just a reference to a receiving MS identifier is appreciated (i.e. public sector is data controller)

Thank You  
for Listening!



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