

eIDAS Identity Matching in Austria

Herbert.Leitold@a-sit.at

CEF Identity Matching Webinar,
April 24th, 2019



Contents

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

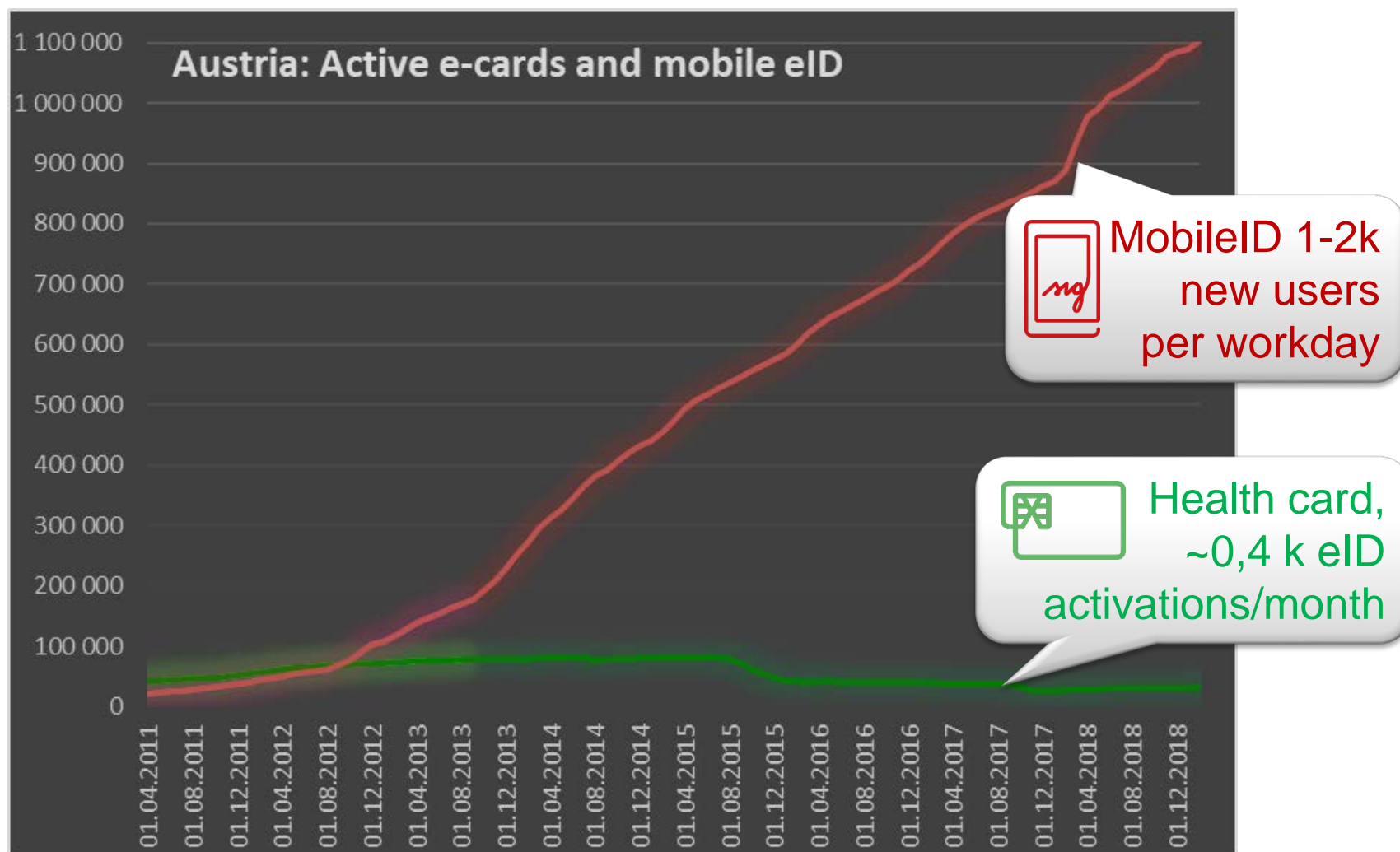


The Past/Present: Austrian Citizen Card

- 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*)

- 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

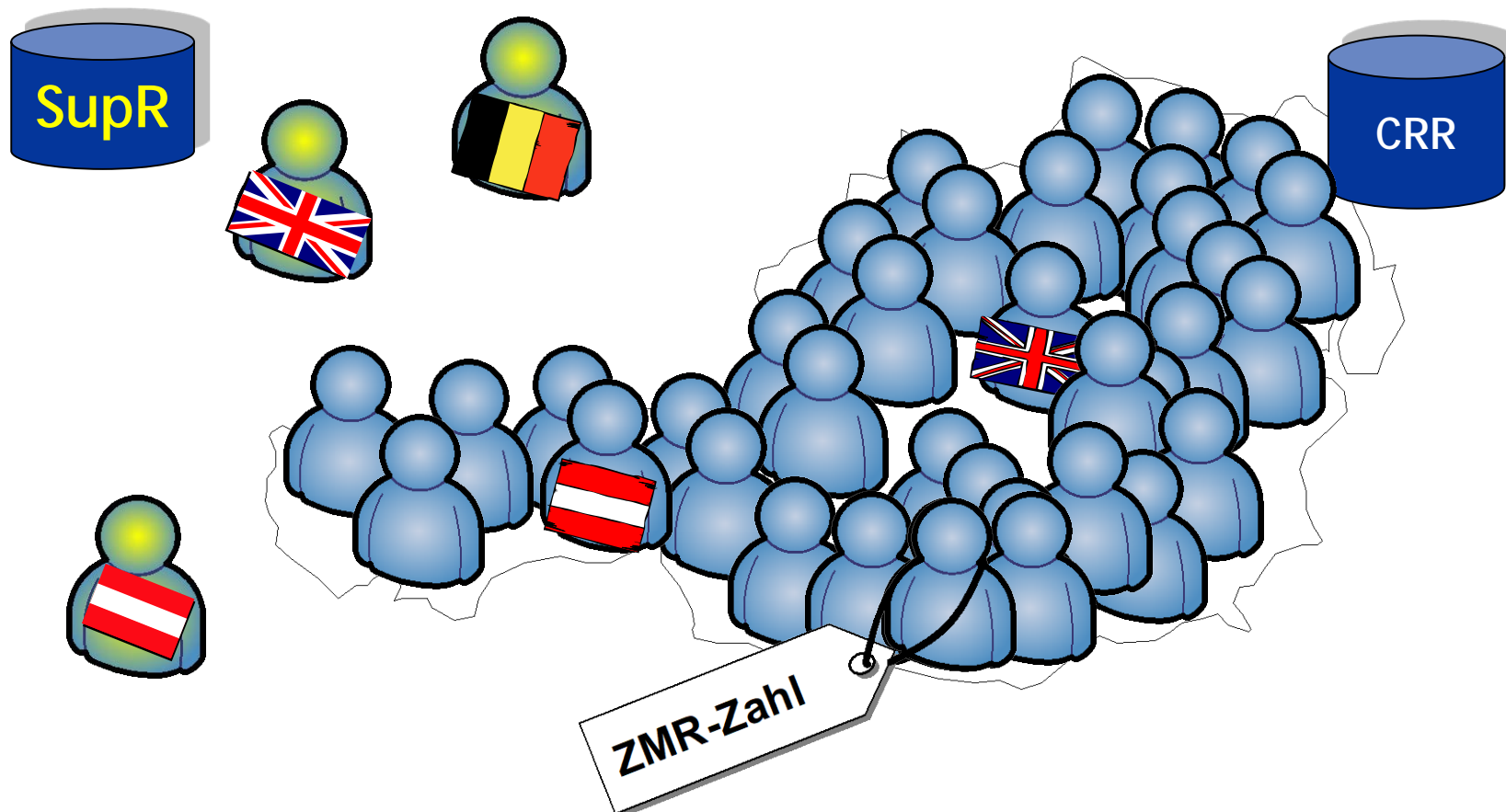
The Basis: Registers

- 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)

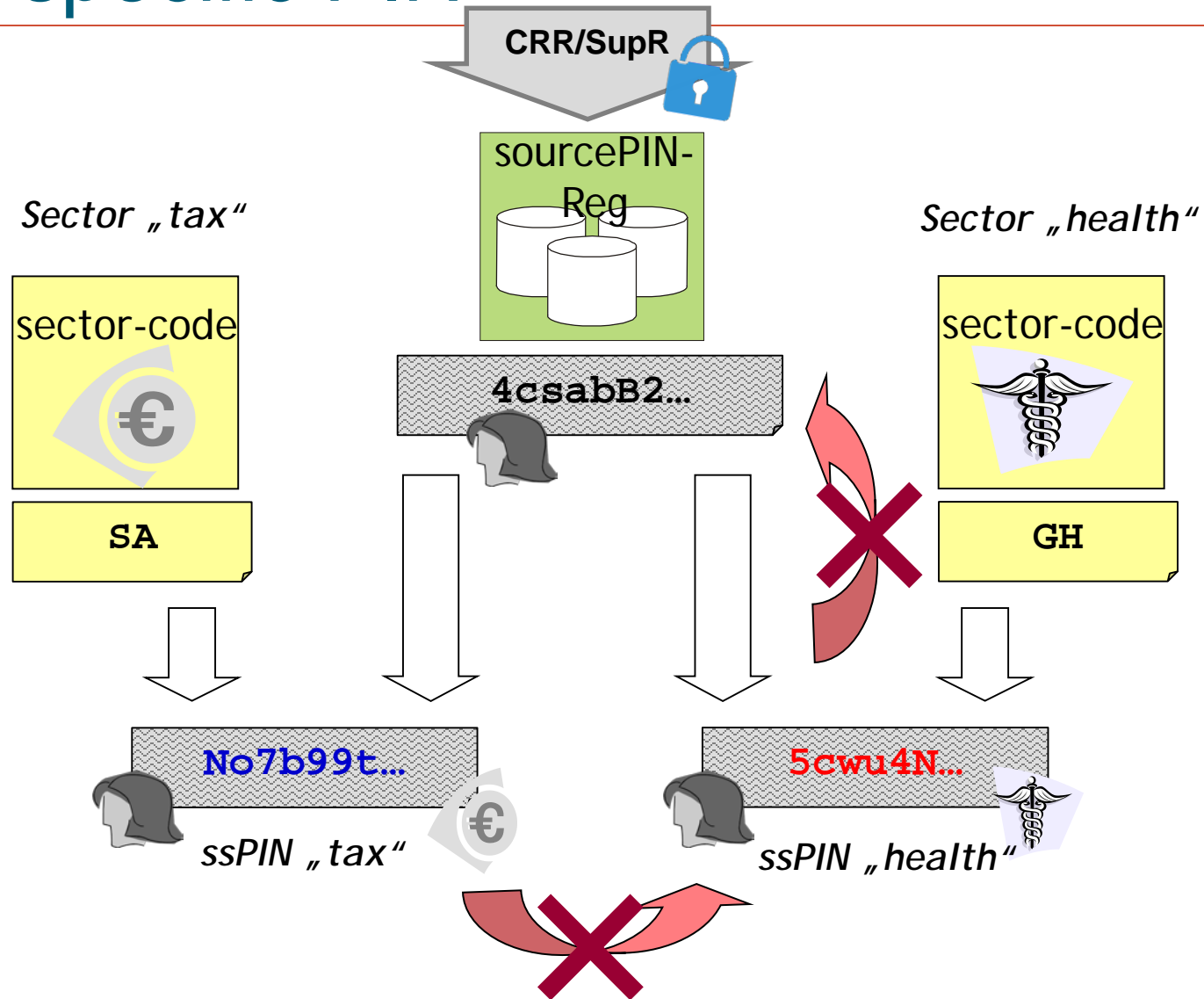
Central Register of Residents



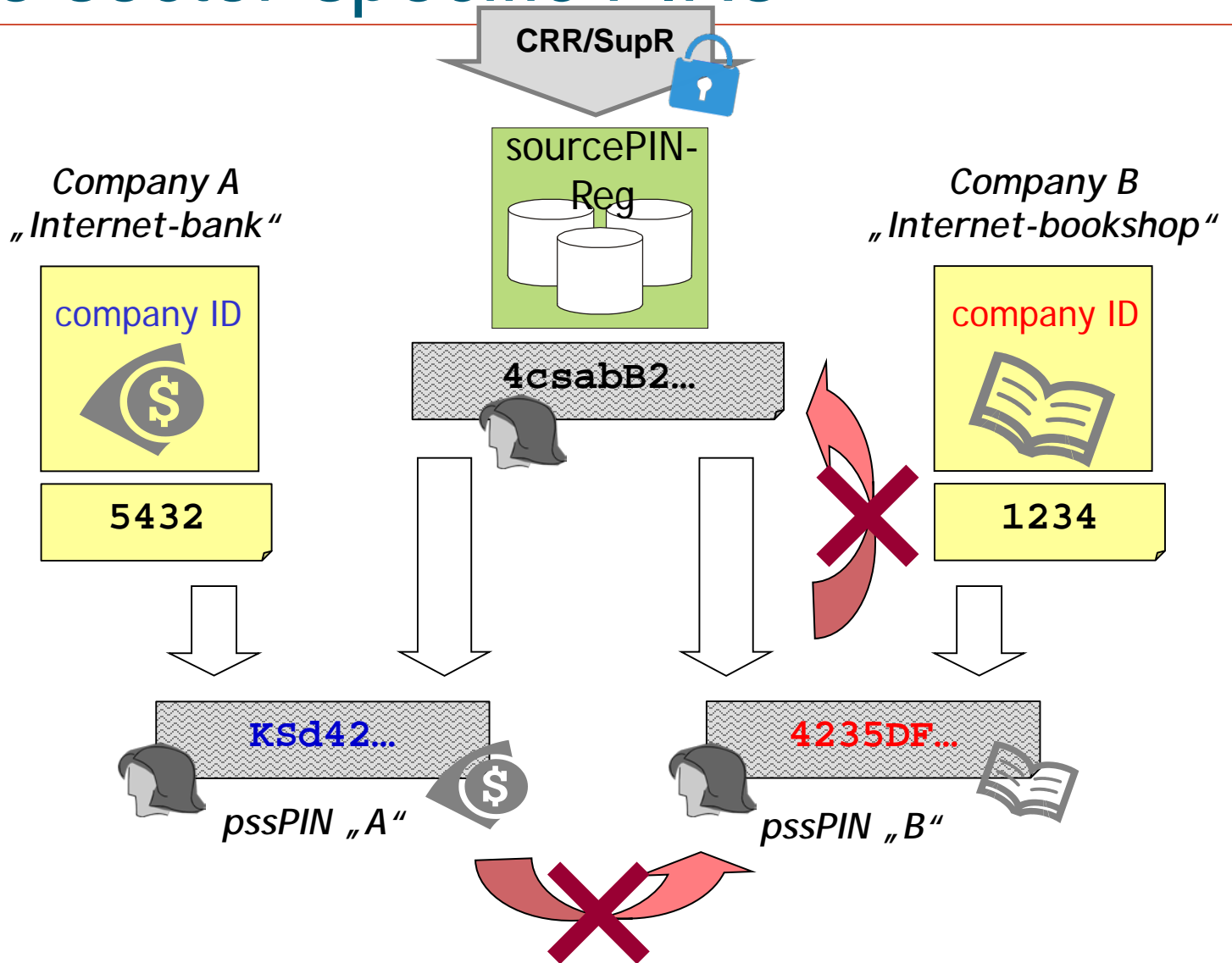
Each resident has a unique number (ID) „ZMR-Zahl“ in the Central Register of Residents (CRR)

Source: Thomas Rössler

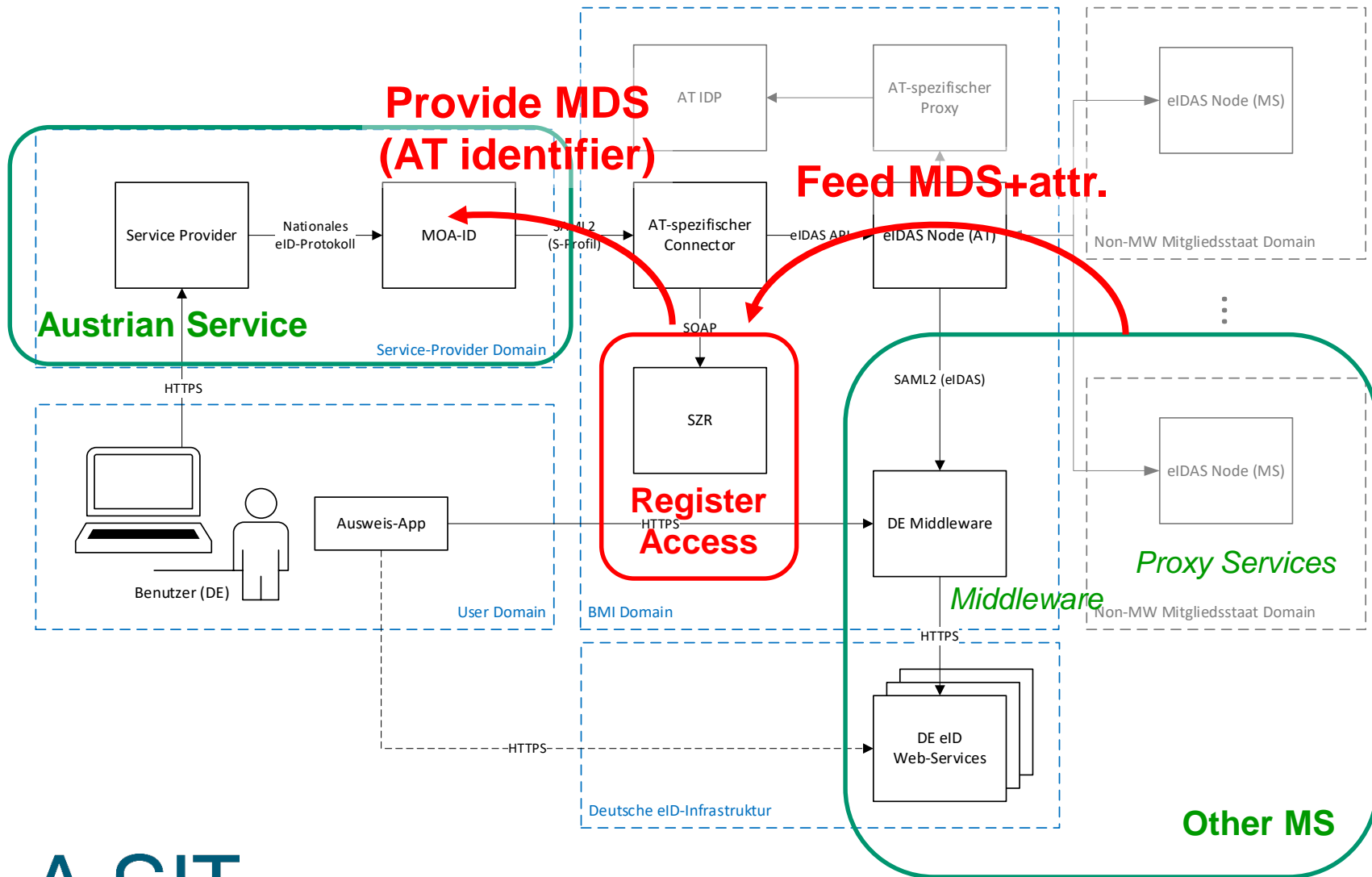
Sector-specific PIN



Private sector-specific PINs



Austrian E-ID and eIDAS Architecture



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Foreign identity matching before eIDAS

- 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

- 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

- 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

- 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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