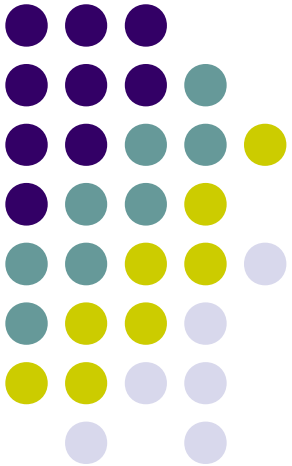
Telco Working Group

Kantara Initiative Summit 2011
Trust Framework Model and IdM Summit

Munich, May 13, 2011

Ingo Friese, Deutsche Telekom Laboratories,Berlin, Germany
Fulup Ar Foll, Principal Engineer, Oracle, EMEA



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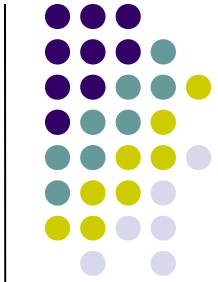

IdM Requirements of a Telco

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Ingo Friese,
Deutsche Telekom Laboratories,
Berlin, Germany

Telco requirements to an IdM Infrastructure.

- Improving user experience and security
- Ensuring user privacy
- Increased effectiveness in managing their current business
- Enabling new revenue generation and new business opportunities

Source: http://www.telekom.com/dtag/cms/content/dt/de/18742

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IdM login procedure must be secure and consistent across all applications, devices, screens etc. (mobile, fixed, TV…).

- An intuitive, easy to use and recognizable Identity Management across different platforms lowers the “usage barrier” of services.




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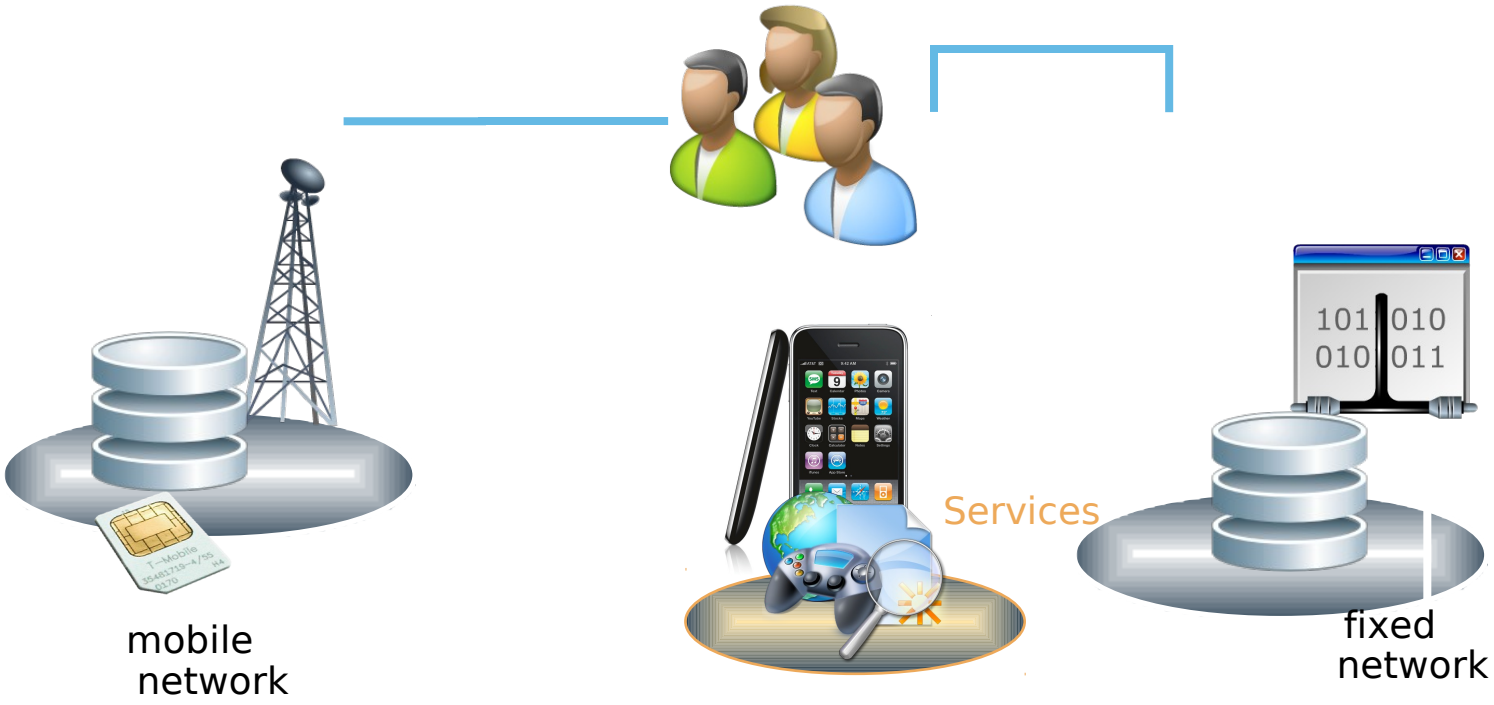
IdM-driven user convergence is a key for seamless fixed-mobile services.

- An access-agnostic IdM enables seamless fixed-mobile services (e.g. automatic authentication by GBA).



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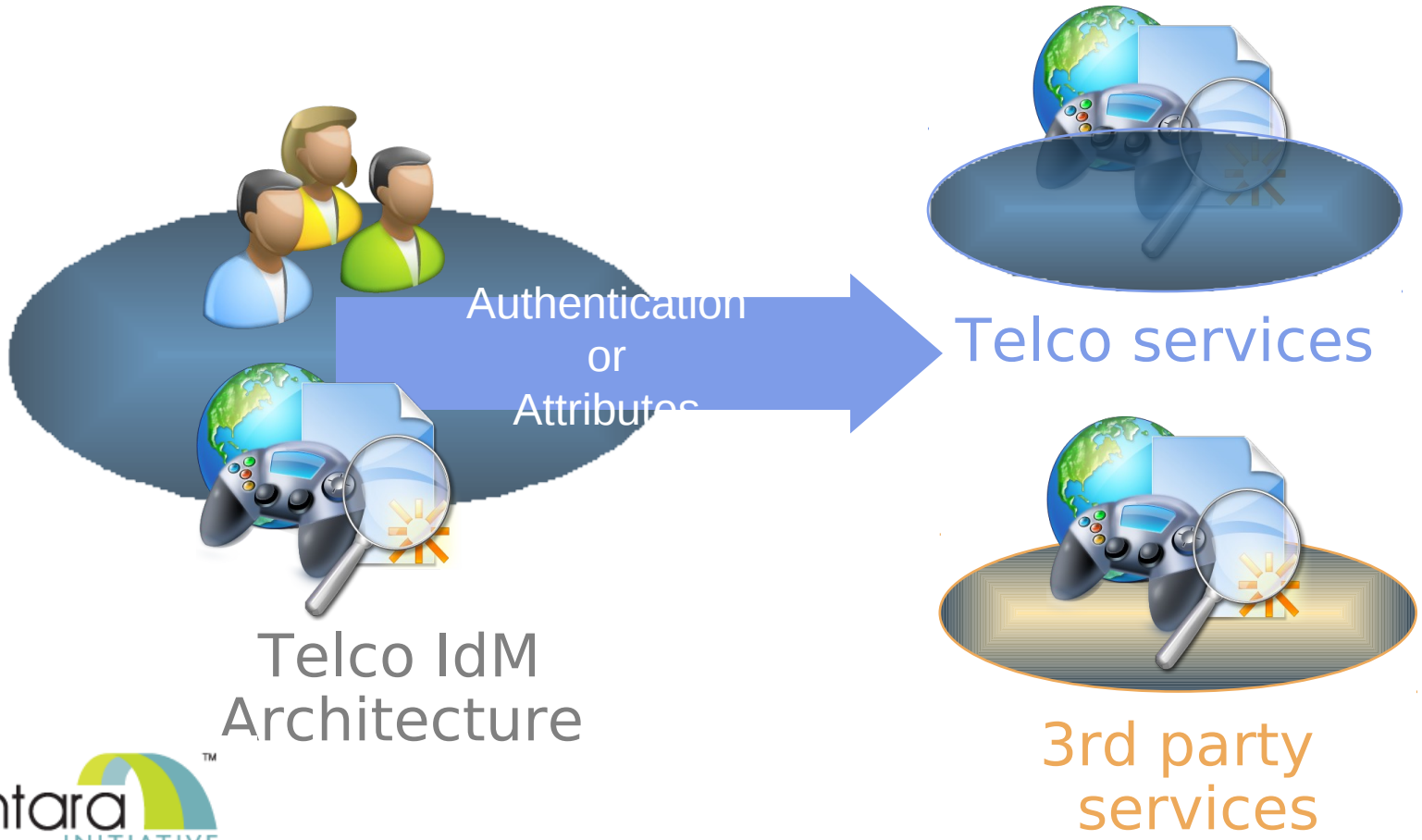
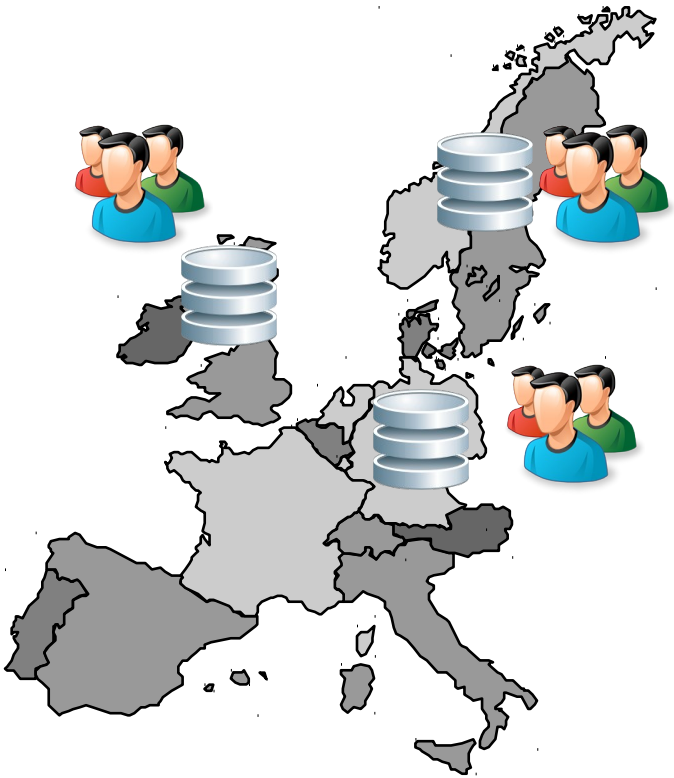
IdM must be able to act as an Identity Provider towards 3rd Party Services.

- IdM is crucial for service aggregation.



IdM must be able to support the management of identities within a local/regional context.

- User data are subject to different national or regional privacy laws.
- They need to be handled according to local/regional regulations.



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IdM must support different integration patterns and standards.

- Using standards allow for integration of new applications faster, cheaper and with less risk.

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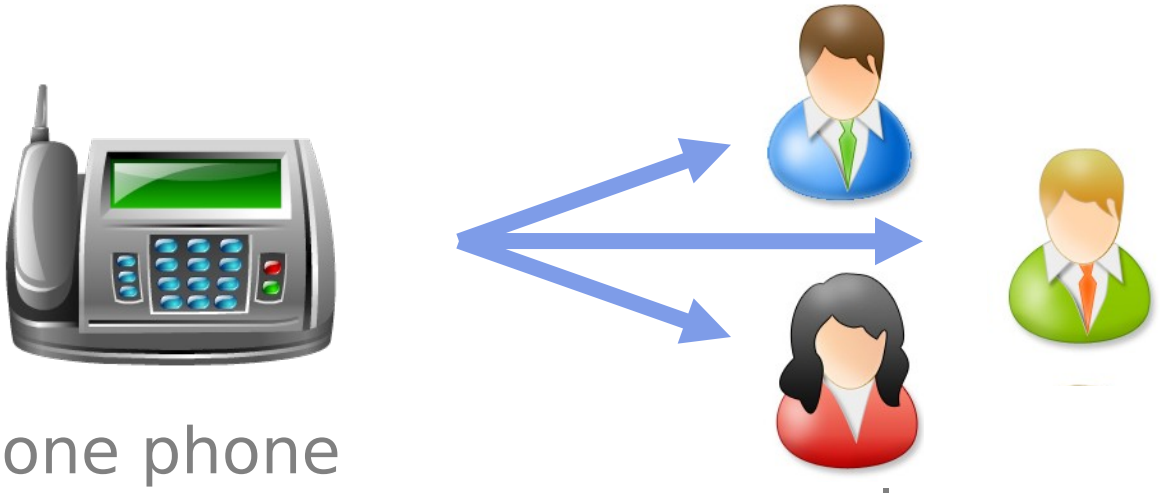
User identities must be decoupled from network, device and customer identities.

- There is not always an one-to-one relationship between network, device and user identity.



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IdM must be able to handle various sources of identities (internal and external sources).

- Most user have more than just one “Telco-Identity”.
- Rich and easy to use service scenarios have to support different sources of identity (e.g. national ID-Card).

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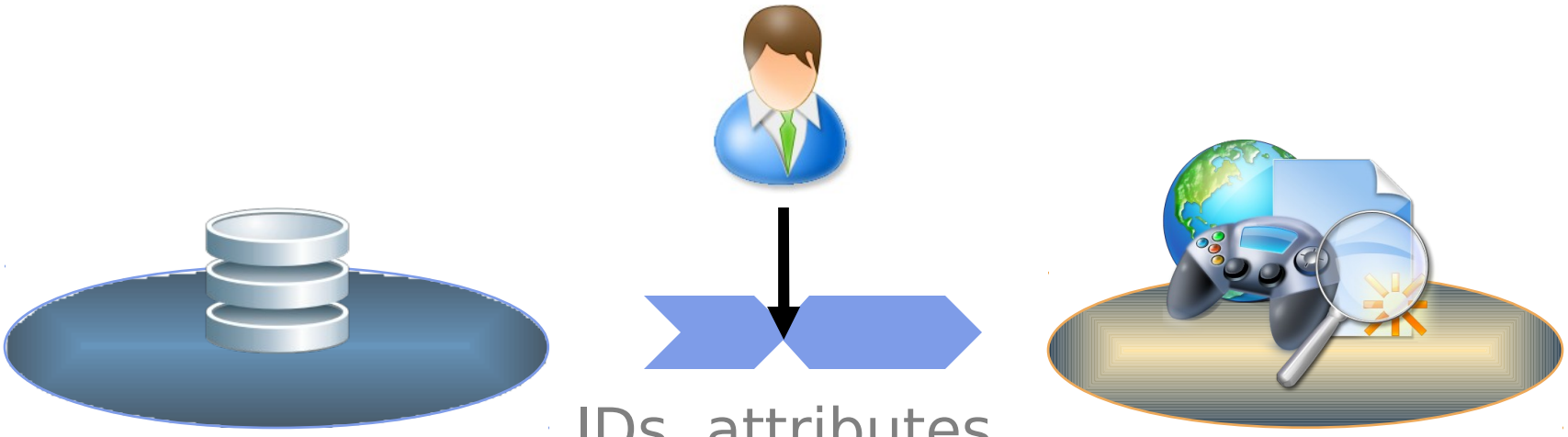
IdM must provide users with the ability to control their identity information (user-centricity).

- User-centricity allows users to be 'in control' of their identity information and which aspects of their identity are released to other relying party applications.
- User-centricity is a safe way in attribute exchange for both user and identity provider.



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IdM requirements of a Telco

- IdM login procedure must be secure and consistent across all applications, devices, screens etc. (mobile, fixed, TV…)
- IdM-driven user convergence is a key for seamless fixed-mobile services.
- IdM must be able to handle various sources of identities (internal and external sources).
- IdM must be able to act as an Identity Provider towards 3rd party services.
- IdM must support different integration patterns and standards.
- IdM must be able to support the management of identities within a local/regional context.
- User identities must be decoupled from network, device and customer identities.
- IdM must provide the user with the ability to control identity information (user-centricity).

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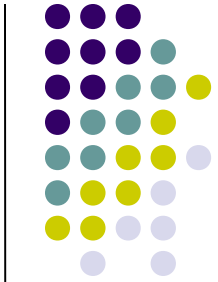

Telco Massively Scalable Identity Architecure

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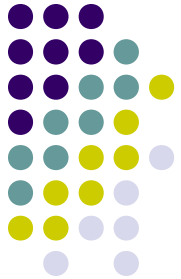
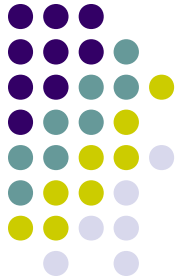
Fulup Ar Foll
Principal Engineer
Oracle, EMEA

Fully Distributed



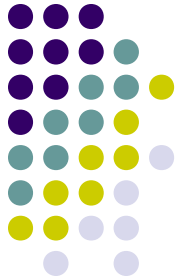
- Geographical distribution
  - Latency optimization
  - Legal or Political split, share
  - Failover, load balancing
- Authentication repository (HLR/HSS)
- Personal profile (attribute retrieval)
- Outsources services

Flexible & Versatile



- Multi-devices
  - PC, Telephone, TV
- Multi-access
  - DSL, Mobile, Wifi
- Multi-services
  - WEB
  - IMS (conversational services)
  - Streaming (TV/Music)

Scale to hundreds millions of users.



- Any major player is going to have more than one hundred millions users.
- User are not limit themselves to few global IDs. Providers should either:
  - You accept to export your Ids
  - You accept external IDs

Multi-Protocols

OneAPI V1.0 REST APIs

Short Messaging
Multimedia Messaging
Location
Payment

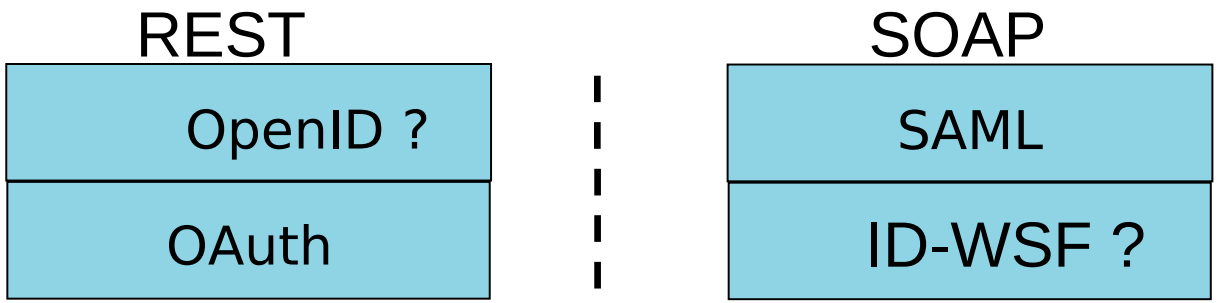
OneAPI V1.0 SOAP APIs

Short Messaging
Multimedia Messaging
Location
Payment
Common

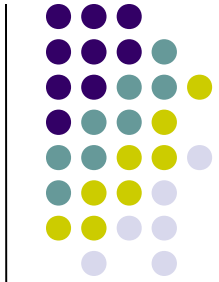
([SUPM-TS-LDAP], [SUPM-TS-RESTful], [SUPM-TS-SOAP])

- Telco APIs

IdM, security, ...



*Expose both HTTP/Restful and SOAP versions of Telco APIs **easily** and in a **consistent** way.*



Questions ?

http://kantarainitiative.org/confluence/display/telcoid

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