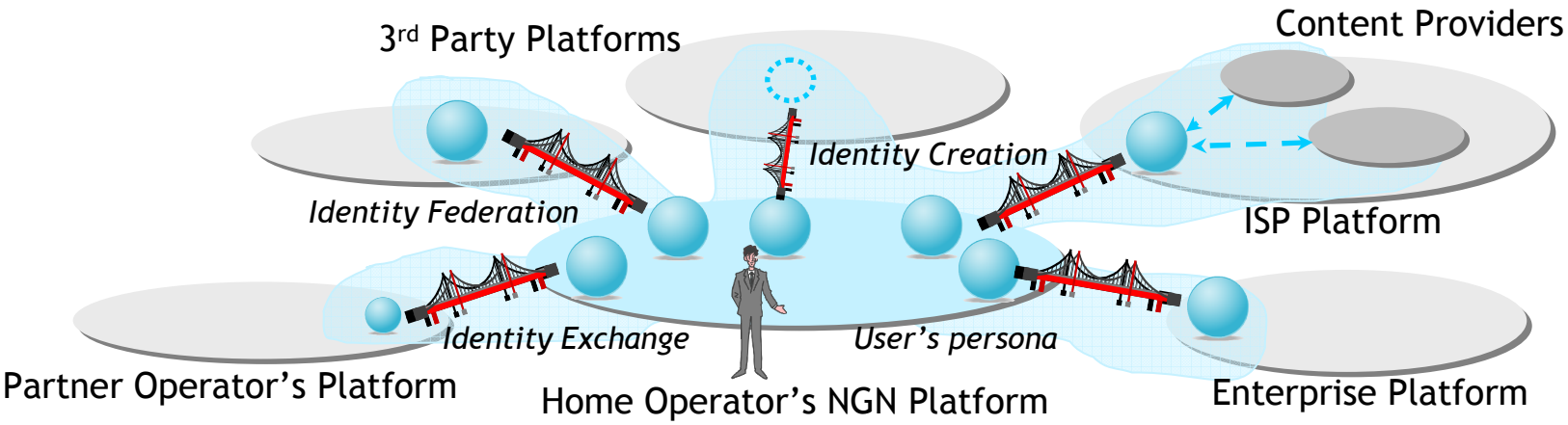
SWIFT - FP7 Project

Amardeo Sarma

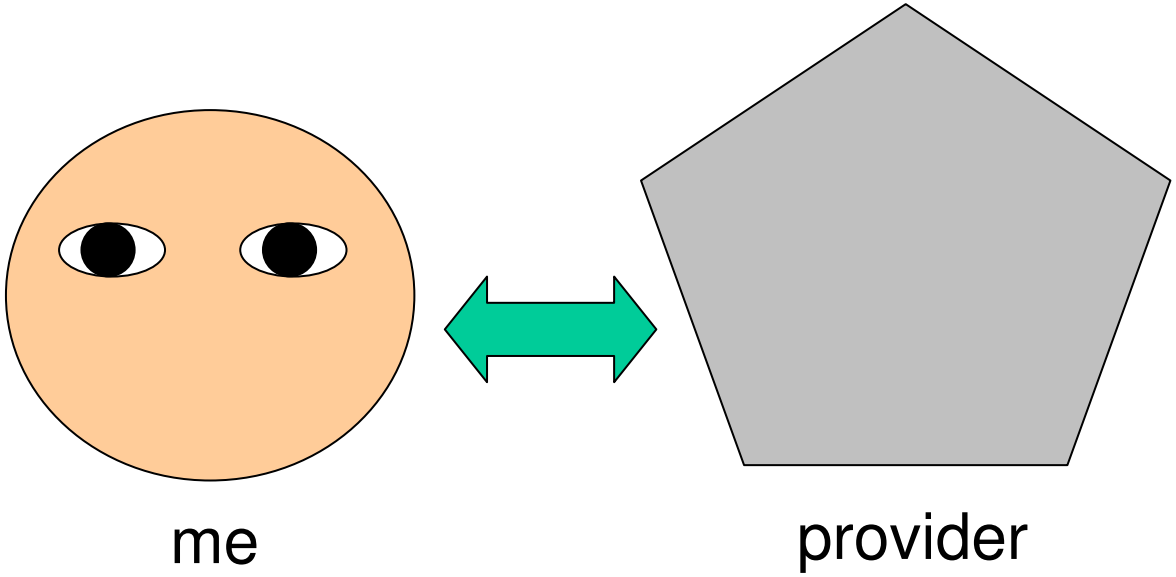
Target: Identity Convergence

- Solve identity fragmentation of today:
  - ➔ Make a bridge between platforms
    - **introduction of multi-personas per user**
    - **transcend layers from network to services / applications**
  - ➔ Filter flow of identity info across the bridge
    - **minimization of identity info disclosure from user's viewpoint**
    - **making identity info obscure from operator's viewpoint**



Source: NEC

Traditional Relation Customer – Provider



Fixed Operator:
Customer ID
Physical line

Mobile Operator:
Customer ID
SIM Card

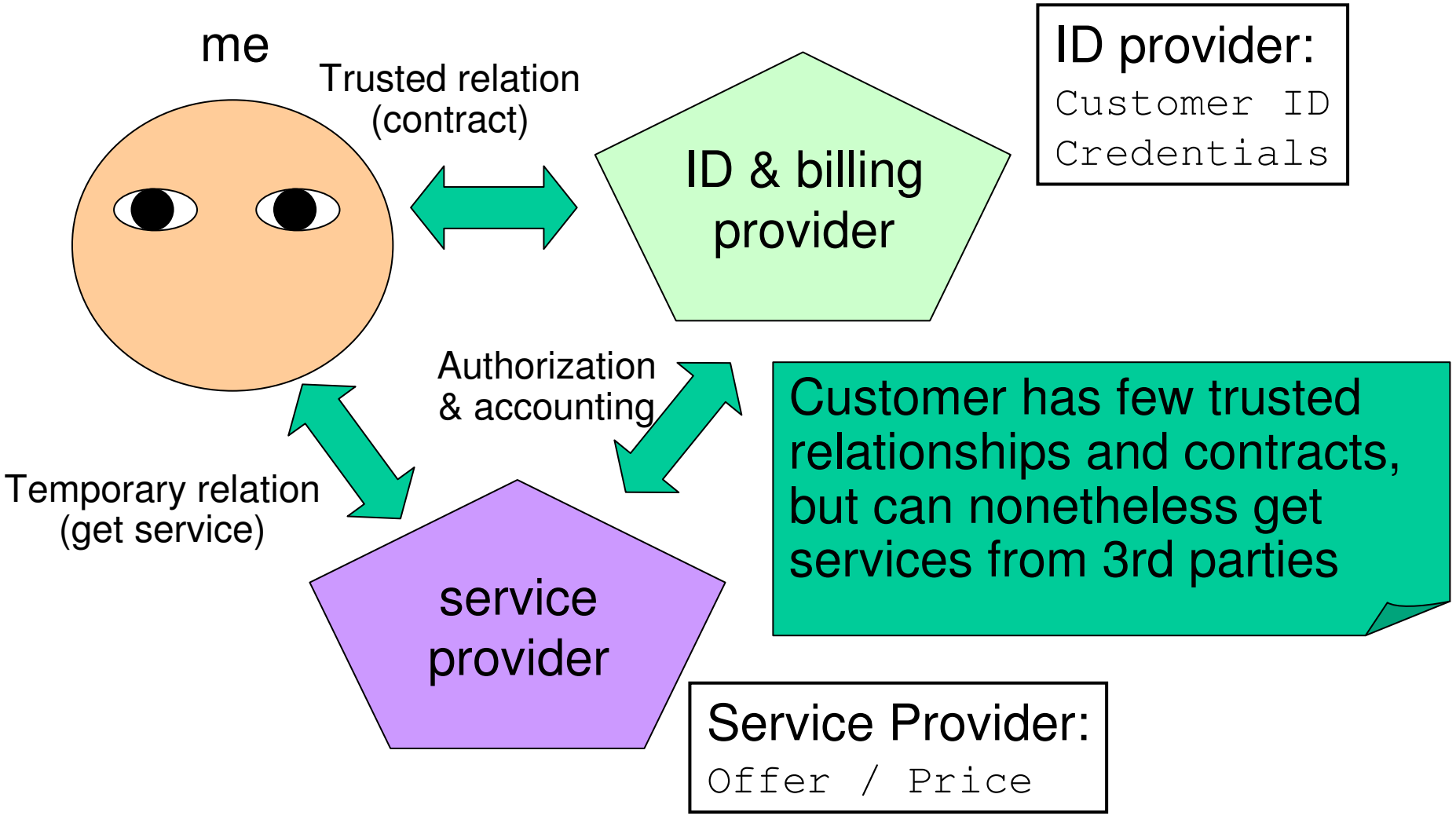
ISP:
Customer ID
Name / Password

Amazon etc.:
Customer ID
Name / Password

Drawback: Customer needs separate contract for (most) services

Reason: The provider is responsible not only for the service, but also for identification and billing

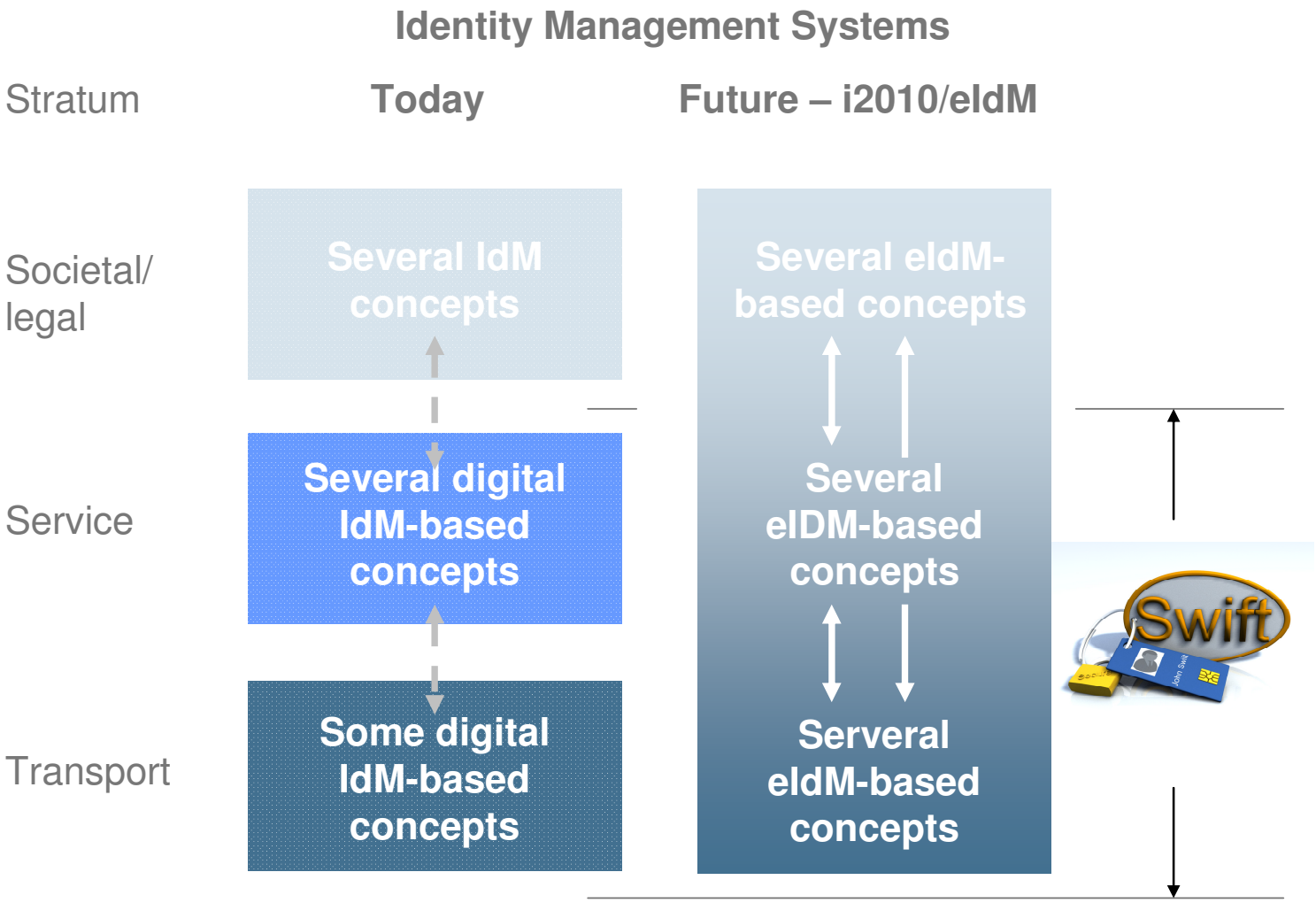
Target Scenario for SWIFT



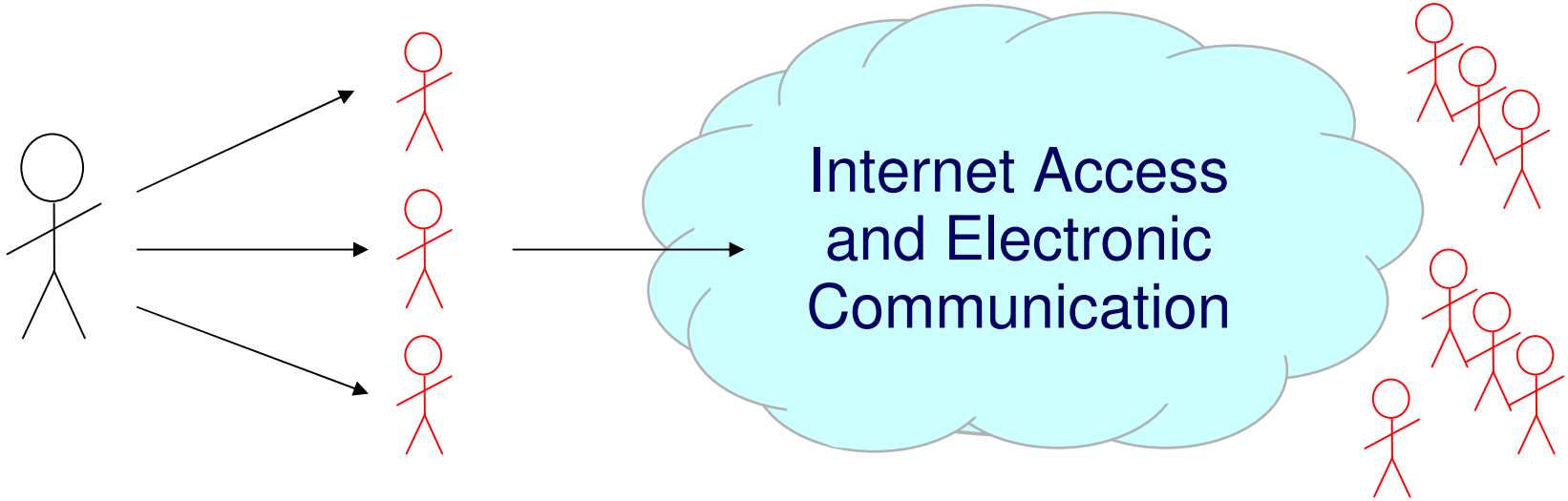
SWIFT R&D Direction & Differentiator

- Identity & Privacy *across layers* → vertical approach
- Optimize and integrate user/service/network-centric IdM with network focus
  - ➔ Example: identity-based roaming & mobility
- Develop Identity as a *key enabling technology* for convergence (between telcos, Sps, micro-operators)
- Enable user control on where information is passed on
- Develop Identity-oriented Services (tools to deal with your identity related attributes)
- Enable business dynamics allowing fast entry of new players and growing existing players business
- Builds on Daidalos *VID concept*

SWIFT Scope


Identity Management Systems
Stratum
Today
Future – i2010/eIdM
Societal/ legal
Service
Transport
Several IdM concepts
Several digital IdM-based concepts
Some digital IdM-based concepts
Several eIdM-based concepts
Several eIDM-based concepts
Serveral eIdM-based concepts
Swift

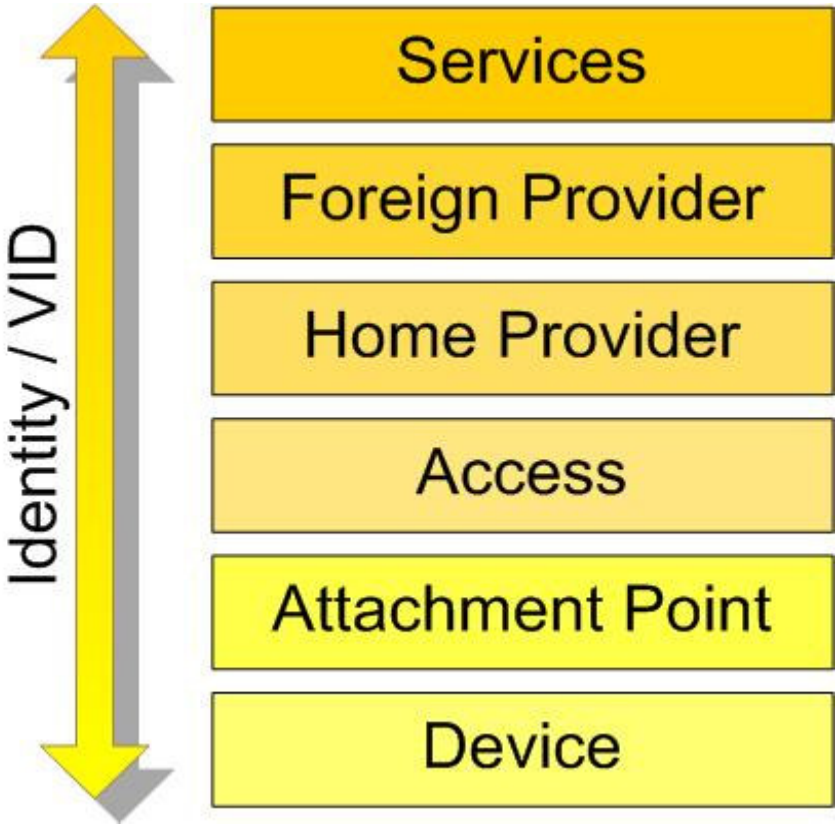
Using several Faces for Privacy



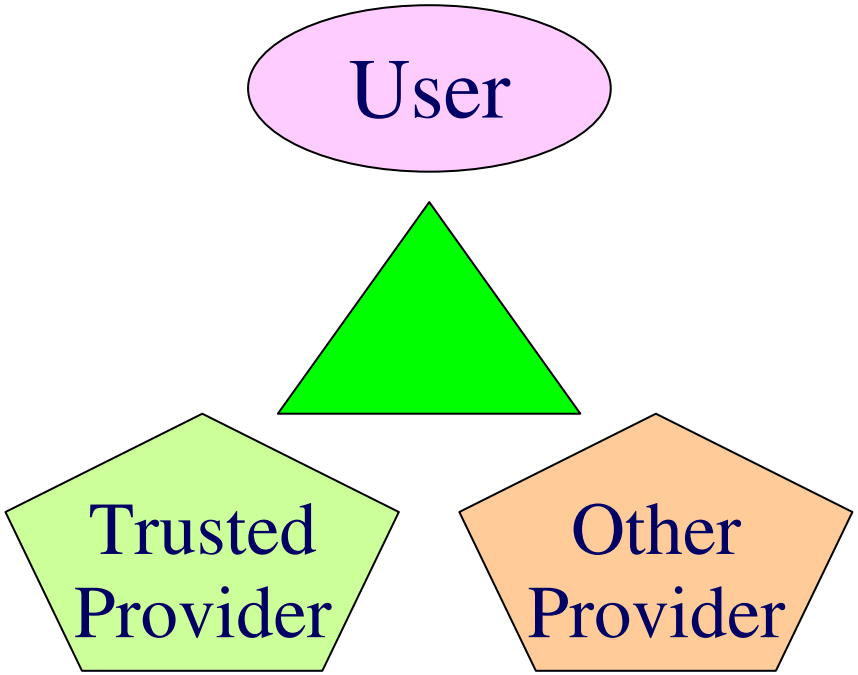
- One person has many “faces” for transactions to separate roles or for privacy reasons
- These “personalities” or “avatars” or Virtual Identities (VIDs) must be unlinkable even though some attributes may be shared between them
- The user must control the data revealed

Technology and Business Drivers

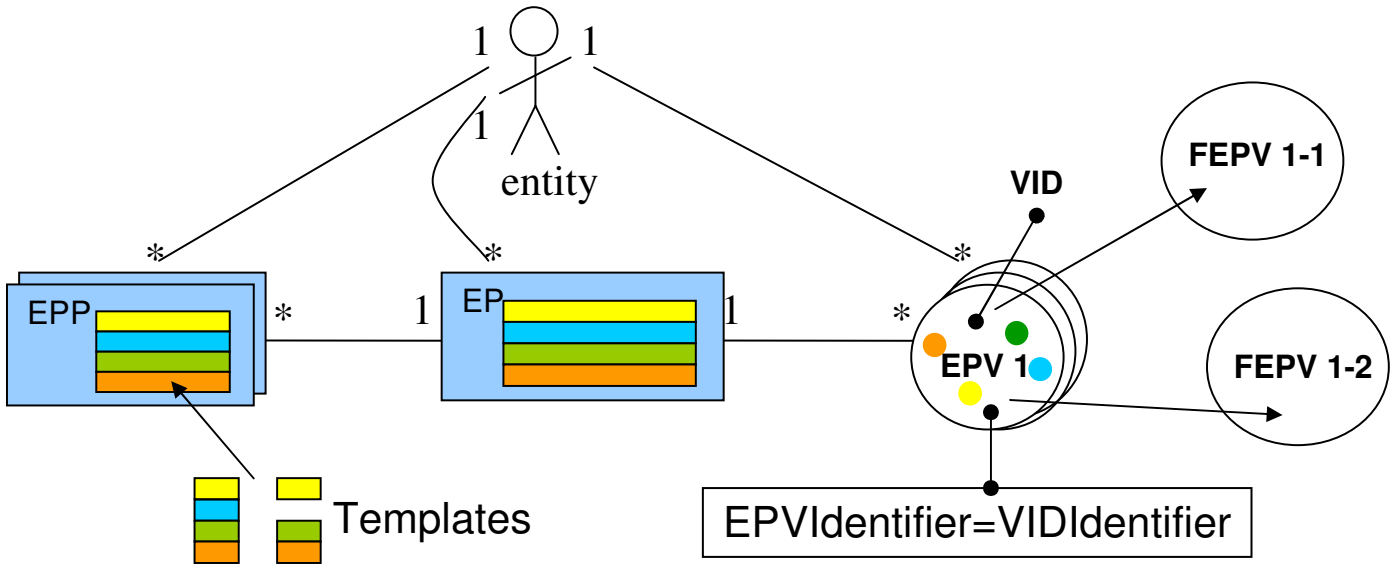
Binding Identity Model



Triangle of Transactions



Daidalos Data Model

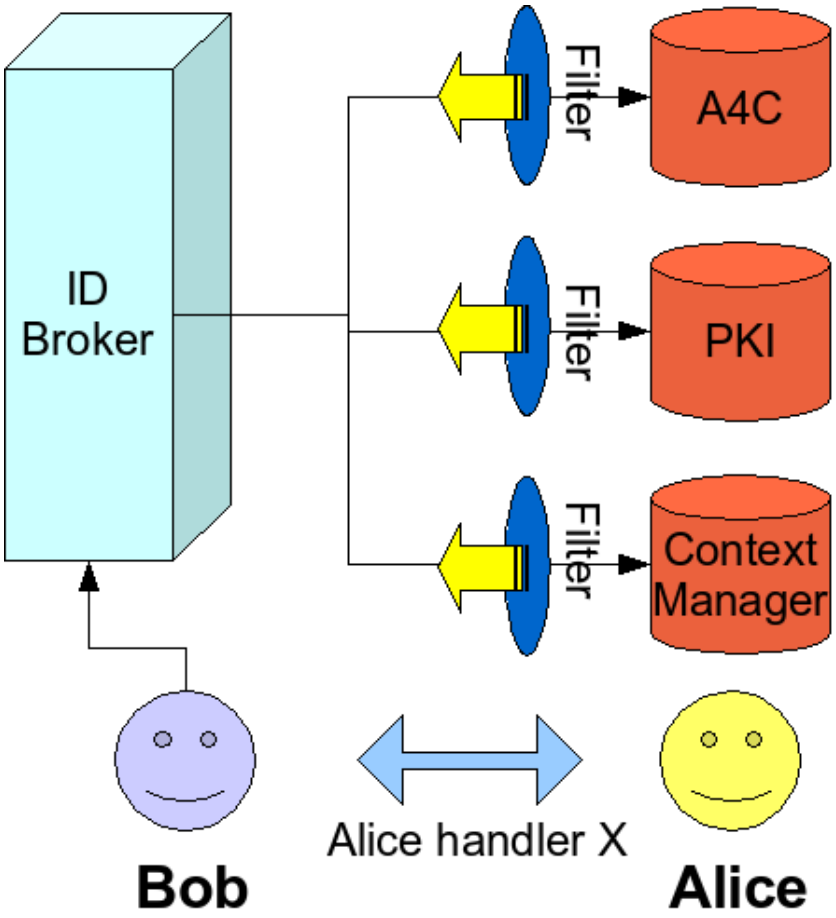


- Entity: individual, company, provider, etc able to make legal binding
- Entity Profile Part (EPP): Coherent piece entity's data e.g. at provider
- Entity Profile (EP): The union of all EPPs plus entity's knowledge
- Entity Profile View (EPV) or Virtual Identity: Entity's aggregation of EPPs
- Filtered EPV used for access (to not reveal more than needed)

Source: Daidalos

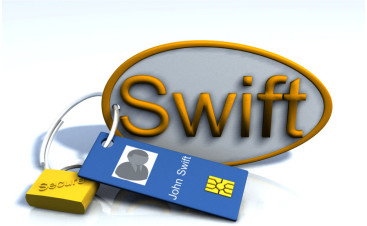
Extend Daidalos ID Broker

- Scenario:
  - ➔ Alice uses a service offered by Bob
  - ➔ Alice interacts as VIDID “X” with Bob
- Bob requests attribute from Alice via the ID Broker



Source: Daidalos

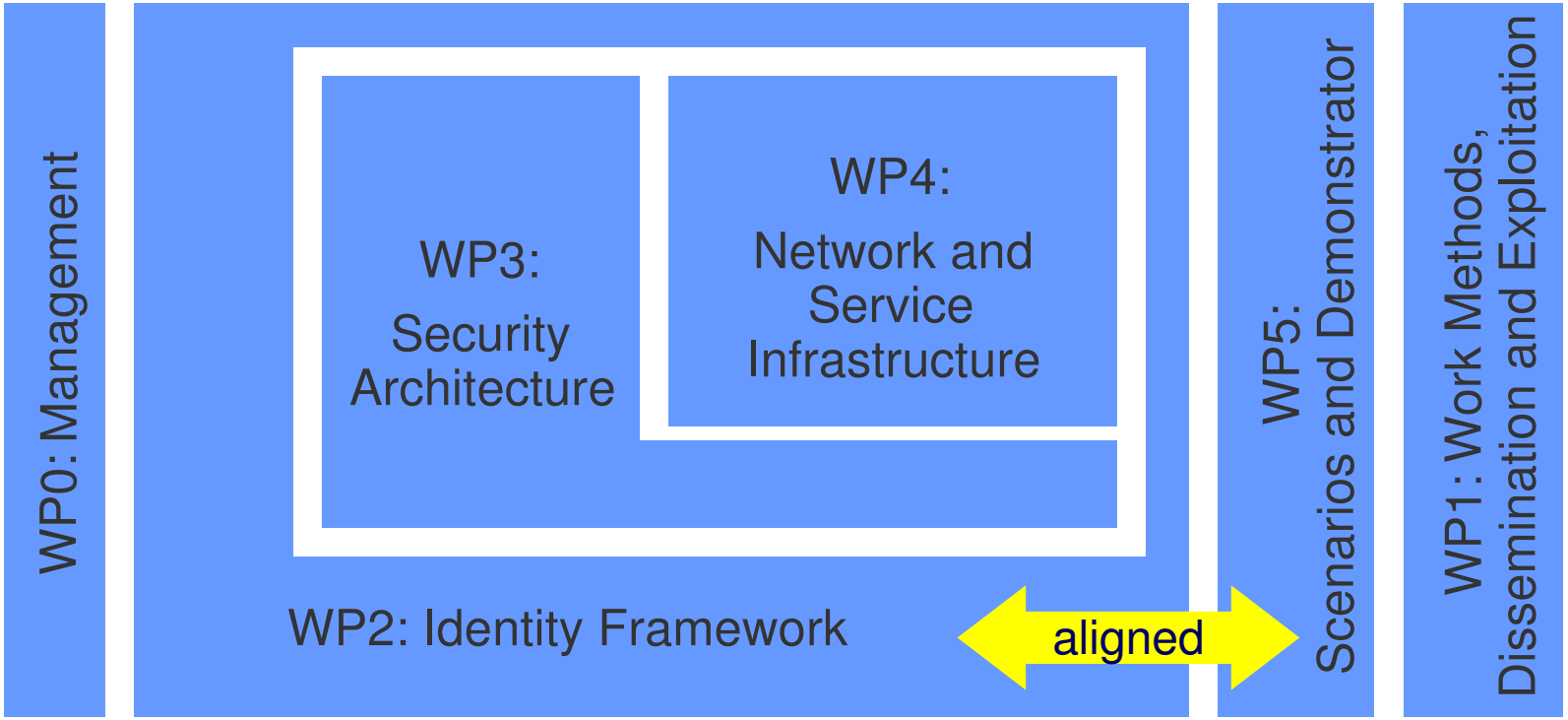
SWIFT – FP7 Project



- Duration: January 2008 – June 2010
- Consortium: 9 partners from Industry and Academia (see below)
- Project Co-ordinator: FhG SIT, Technical Leader: NEC
- Focus
  - ➔ Identity & privacy *across layers* → vertical approach
  - ➔ Develop Identity as a key enabling technology for convergence
  - ➔ Combined user / operator control on information exchange
  - ➔ Optimize user/service/network-centric IdM with network focus
  - ➔ Develop Identity Oriented Services
  - ➔ Build on R&D from Daidalos & other FCT projects

NEC | Deutsche Telekom | it | University of Murcia | DRACOTIC | Alcatel·Lucent | Portugal Telecom | Fraunhofer Institut Sichere Informations-Technologie | University of Stuttgart

Project Structure



Our Website

SWIFT Login Module

Username Password

Login Lost Password?

SEVENTH FRAMEWORK PROGRAMME

Home Project Links Search

SWIFT is a EU project | Partners | Duration | WP1 | WP2 | WP3 | WP4 | WP5

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EU IST FP7 Project SWIFT

SWIFT is a European Union funded project of the 7th Framework Programme. It aims to leverage identity technology as a key to integrate service and transport infrastructures for the benefit of users and the providers. It focuses on extending identity functions and federation to the network while addressing usability and privacy concerns.

Welcome to the SWIFT Project Pages!

Written by Web Master

Thanks for visiting our web pages. They are intended to give you an overview of the challenges related to Identity Management that our project is addressing. We have picked up on key research done in previous EU IST projects to apply the concept of what we term "Virtual Identities" to the network, and to bridge this to other domains. Privacy as well as new opportunities for operators are two of our key interests.

Identity Management is considered key to private, legal and business transactions as in the European eIDM2010. IdM frameworks are however currently confined to the web services domain. SWIFT goes beyond this by including user centricity and network operators as additional interdependent domains with IdM at the core.

Last Updated (Thursday, 03 January 2008)

Read more...

SWIFT Project approved

Written by Administrator

The final version of the Description of Work was approved early November 2007, as the project officer Bart Van Caenegem informed us. The project is ready to start on 1 January 2008.

Last Updated (Thursday, 03 January 2008)

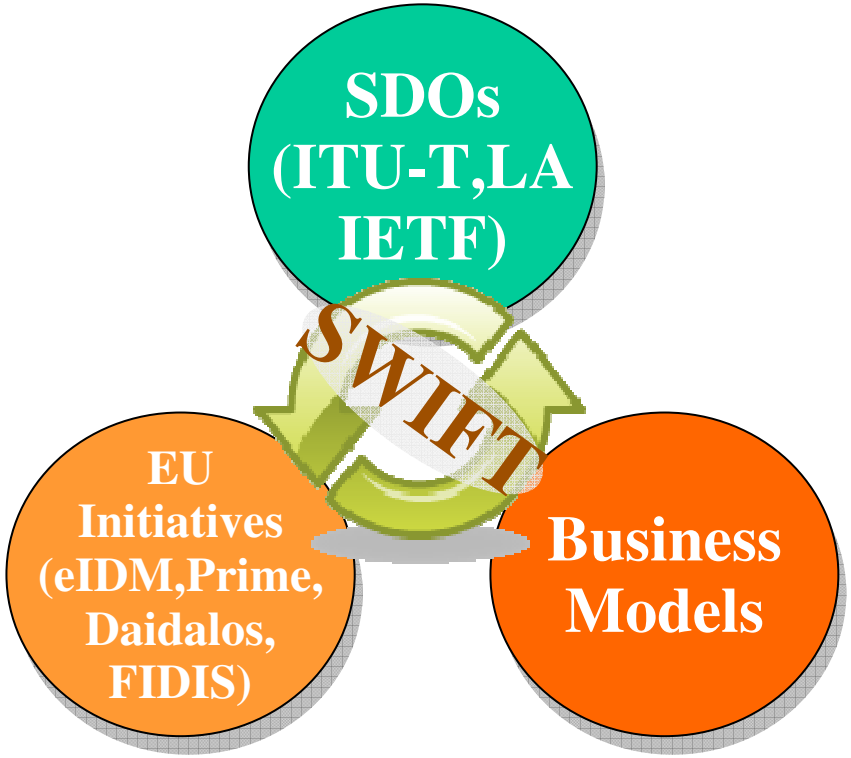
ITU-T GSI on IdM to be kicked off

Written by Administrator

At the next ITU-T meeting of Study Group 13 from 14 - 25 January 2008 in Seoul, Korea, the Global Strategic Initiative on IdM will be kicked off and begin its work. The meetings will be on 18 and 21 January.

Last Updated (Thursday, 03 January 2008)

Conclusions



- SWIFT has started
  - Kick-off 9/10 January 08
- Builds on Daidalos VID Concept
- Focus on Cross-layer and Network
- Leverage IdM as a convergence technology
- More information on http://www.ist-swift.org