

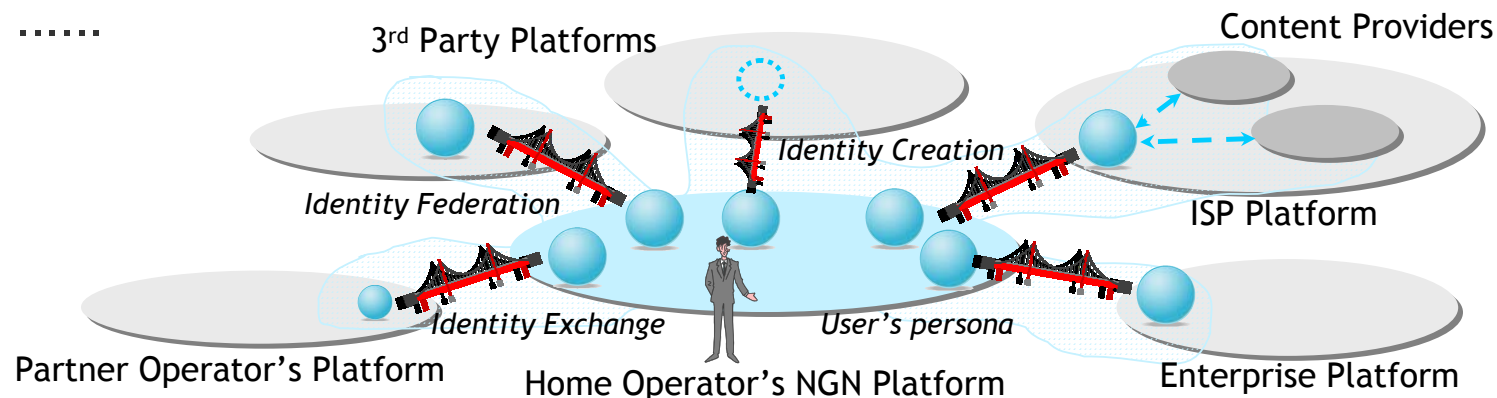


Digital and Virtual Identities in the Future Internet

Amardeo Sarma

The Problem

- ▶ In a multi-role social and business environment
 - We need to support several “virtual” identities with different needs
- ▶ Access and reachability is not trivial in a non-standard environment
 - User is still tied to her device, different for networks and services
 - Multitude of names / addresses instead of controlled (non-) reachability
 - **Ubiquity** far from reality
- ▶ Security, Privacy and Trust
 - Identity is revealed at several levels (starting from MAC address)
 - Cannot conceal identity from visited network / service
- ▶ Solutions exist (though few for networks), but they are fragmented
- ▶

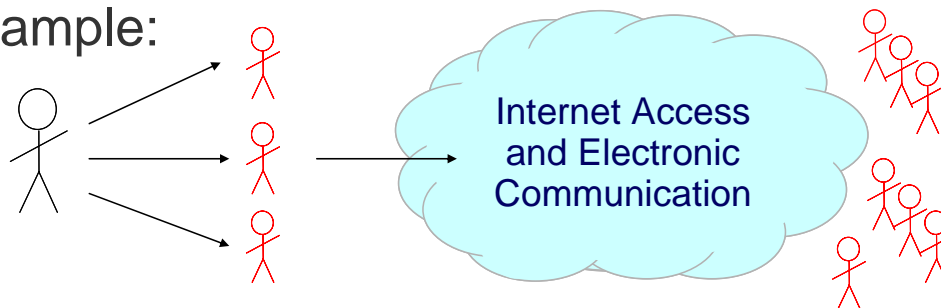


SWIFT – Bringing Identity to the Network



- ▶ Goal is to bring Identity Management to the network
 - Identity & privacy *across layers* → vertical approach
 - Develop Identity as a key enabling technology for convergence
 - Combined user / operator control on information exchange
 - Bridge user/service/network-centric IdM silos with network focus
 - Develop Identity-oriented Services

- ▶ Example:



- 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

- ▶ Goal is to bring Identity Management to the network
 - Enable access and reachability across domains
 - Make Identities of people, services, things, software modules a part of the future Internet architecture
- ▶ The Future Internet could (should?) be ... the

Identinet

- ▶ *Identity* as the future *end point* of communication
 - whether user, service, thing, device or software module
- ▶ Support access, (non-) reachability, ubiquity
- ▶ Privacy can be dealt with vertically thus reducing the danger of conflicting policies and mechanisms
- ▶ non-walled garden business is enabled

Our Website



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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)