

# Haka service and federation in Finland

## International collaboration on identity federations

**Chinese-Nordic Workshop in Trondheim 20th Apr 2006**

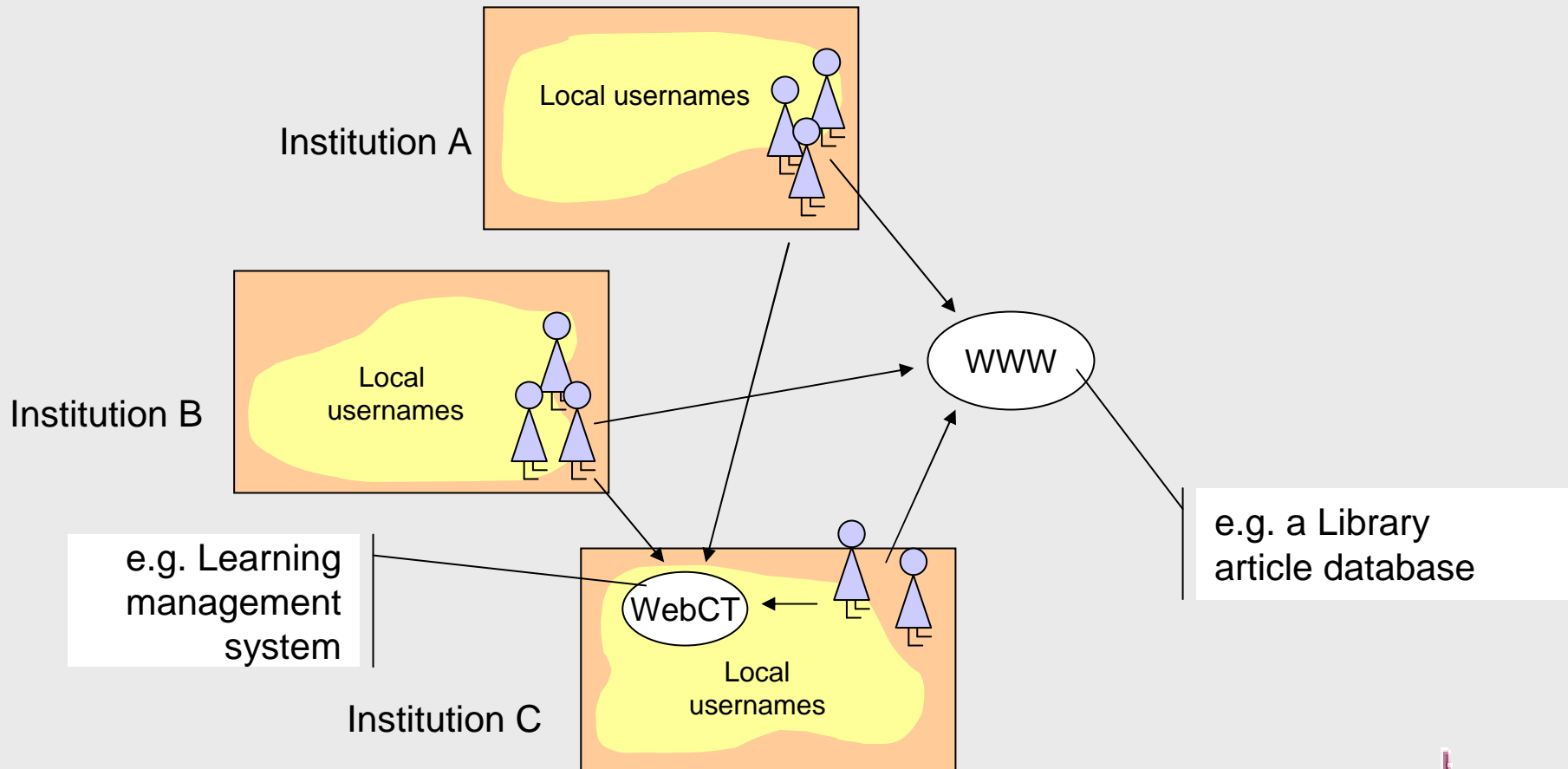
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# What is federated identity management?

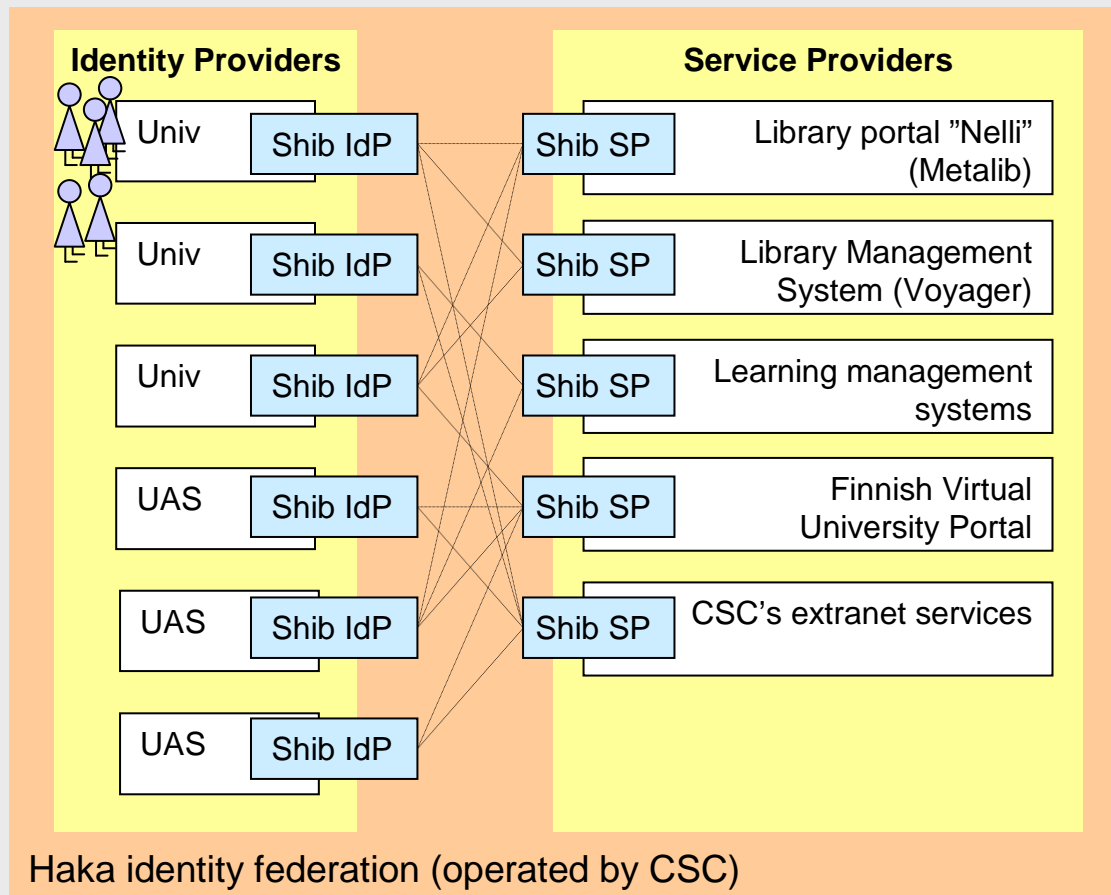


# Status of Haka identity federation

- **Pilot federation operational 12/2003**
- **Production level federation operational 8/2005**
- **Current members: 8/20 universities, 5/29 polytechnic**
  - Big universities; coverage 72% of end users in universities
  - Goal: 12/2006 14/20 universities, 15/29 polytechs
- **Identity Providers (IdP) and Service Providers (SP)**
  - 9 IdPs
  - 8 SPs
  - ~53 000 logins to services in February 2006



# Haka federation, the identity federation of Finnish higher education



- User's home institution (Identity Provider, IdP) maintains user's identity and attributes (name, contact info, role, major etc)
- Home institution authenticates the user (e.g. by password)
- Home institution releases attributes to the Service Provider (on user consent)
- Based on the attributes, service provider decides what kind of service the user gets



# Technology in Haka federation

- **Protocol: Shibboleth ver 1.2/1.3**
  - protocol specified by Internet2 (US), based on standards (SAML 1.1)
  - free open source implementation by Internet2 available since 2003
- **Schema: funetEduPerson**
  - specification of attributes (name, mail, affiliation, study subject...)
  - based on eduPerson of Internet2
- **Certificates: Sonera CA (a commercial Finnish CA)**
  - only server certificates needed



# Service categories so far

## 1. Library services

- The library management system (Voyager), the library portal (Metalib), the digital content repository (Encompass, work in progress)
- The content providers (work in progress)

## 2. eLearning services

- Learning management systems (Moodle, A&O, Optima)
- Electronic application form for becoming a visiting student in another Finnish university ([www.joopas.fi](http://www.joopas.fi))

## 3. Nationally provided services

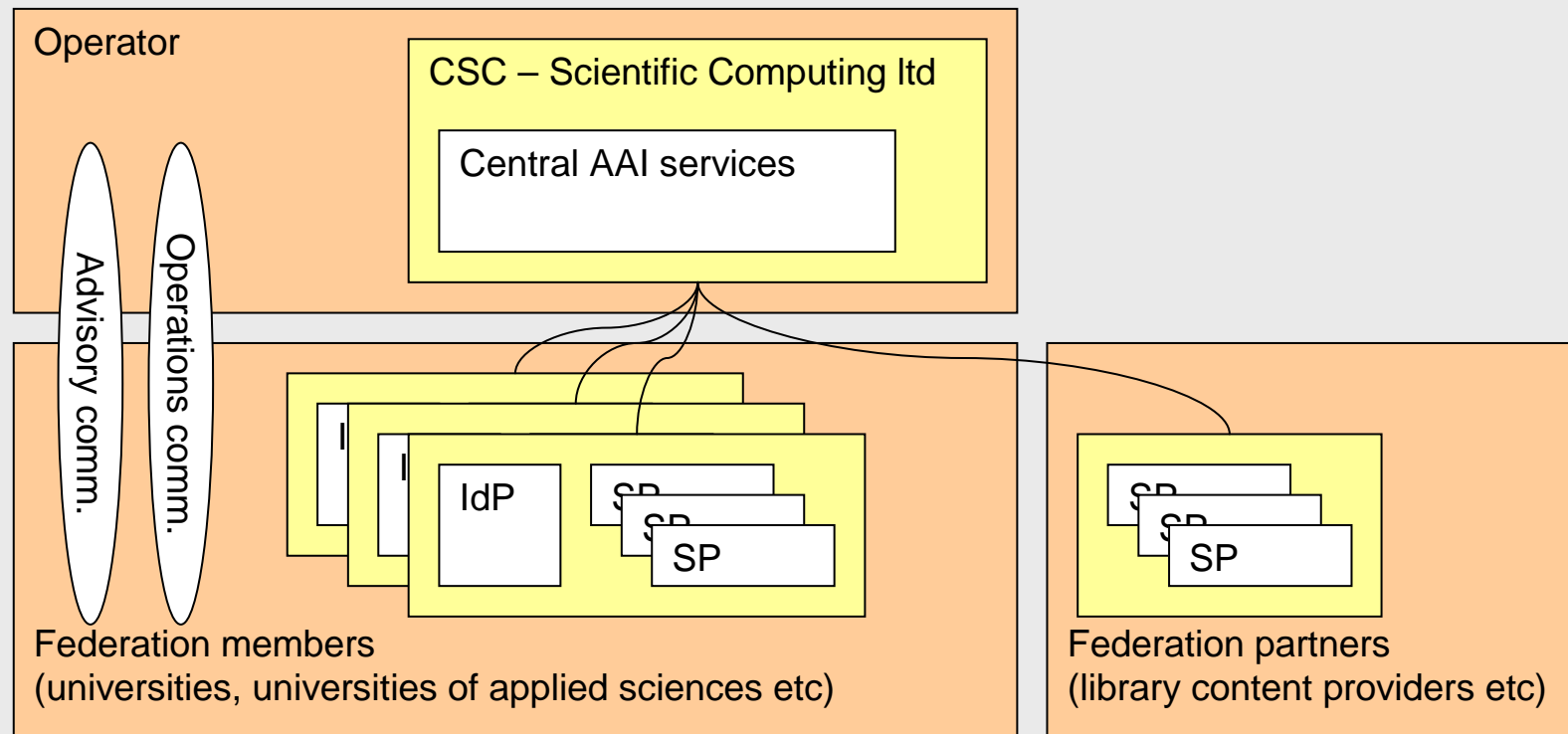
- CSC's extranet services to researchers
- Research funding application form (work in progress)

## 4. ASP services in the administration of an institution

- Circulation of travel expense reports & incoming invoices (work in progress)
- HR software/Employee self-service (work-in-progress)



# Haka is a service provided to the institutions by CSC ("the operator")



# Future Challenges

- **Shibboleth/SAML 2.0**
- **Focus from new IdPs to new SPs**
- **Monitoring, reporting and configuration management**
- **Trying to catalyse commercial companies to provide IdP hosting for small institutions**
- **More ASP services**
- **Cross-national confederation**



# Forums for federated identity in Higher education

- **TERENA (the association of European NRENs)**
  - Terena Task Force TF-EMC2
  - EuroCAMP events (2/year)
  - annual Terena Networking Conference (TNC)
- **Geant2 (GN2) project**
  - funded by European Commission
  - GN2/JRA5 to bridge the national federations
- **MACE (Middleware Architecture Committee for Education)**
  - international, US driven group of campus IT architects
- **Nordic co-operation**
  - Gnomis: regular meetings of identity management experts in NRENs and universities



# Identity federations in higher education

## Shibboleth technology

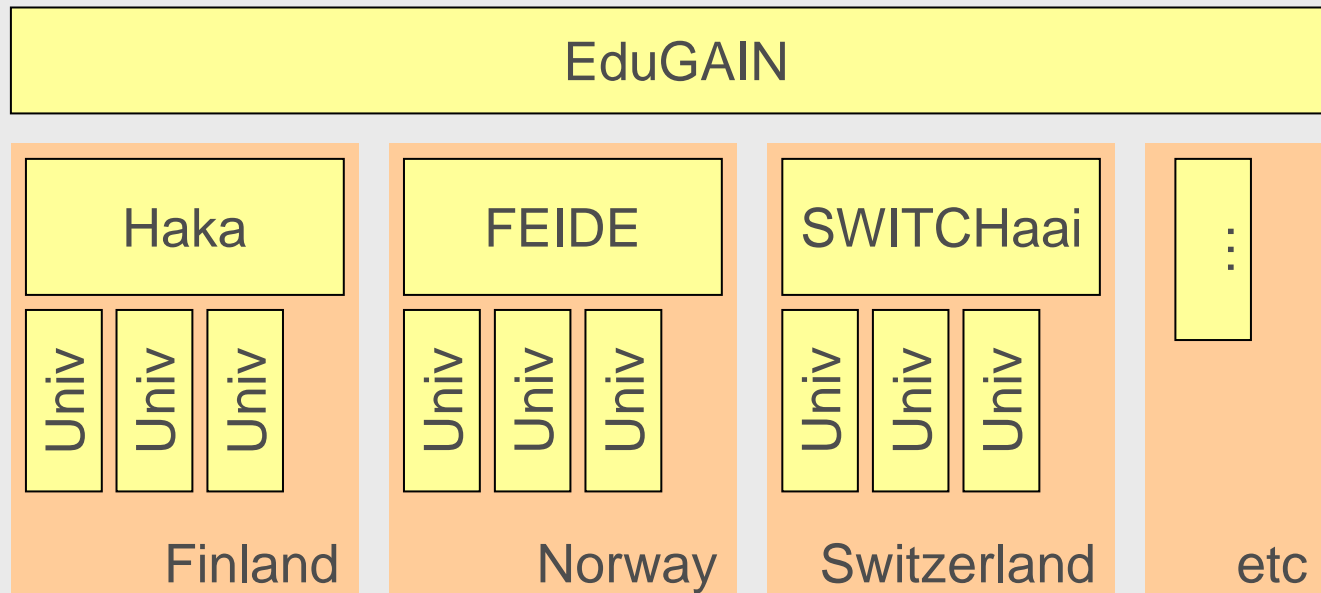
- **SWITCHaai (Switzerland)**
  - since 7/2004
- **InCommon (the United States)**
  - since 9/2004
- **Haka (Finland)**
  - since 8/2005
- **UK Access Management Federation**
  - to be launched 9/2006
- **Projects in Sweden, Denmark, Australia, Belgium, France, Germany**

## Other technologies

- **Norway (FEIDE)**
- **UK (Athens)**
- **Spain (PAPI)**
- **Croatia**



# EduGAIN: Géant2 AA infrastructure



- **Part of Geant2 project**
- **Proof of concept late 2006**

# More Information

- <http://www.csc.fi/suomi/funet/middleware/english/>
- TNC'05 conference paper “Organising Federated Identity in Finnish Higher Education”, available: [http://www.terena.nl/conferences/tnc2005/programme/presentations/show.php?pres\\_id=77](http://www.terena.nl/conferences/tnc2005/programme/presentations/show.php?pres_id=77)

