

Update Finland

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Finnish higher education overview

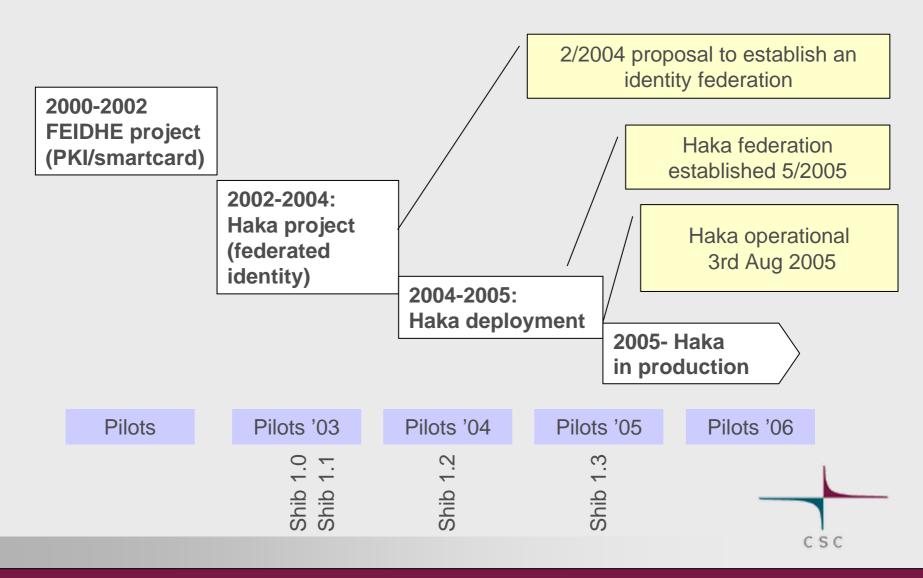
- > 20 universities, 29 polytechnics (=universities of applied sciences)
 - Small units spread all over the country
- > 300 000 degree students, 50 000 employees

CSC, the Finnish IT Center for Science

- Non-profit company owned by the ministry of education
- > 140 employees
- to provide centralised IT services to higher education and research
 - Scentific computing, supercomputing
 - Funet the Finnish national research network (NREN)
 - Haka identity federation (part of Funet services)



The short history



Status of Haka federation

- Pilot federation operational 12/2003
- > Production level federation operational 8/2005
 - running Shibboleth (mostly, ver 1.3)
- > Current members: 11/20 universities, 8/29 polytechnic
 - coverage 80% of edupersons in universities, 31% in polytechs
 - goal 12/2006: 14/20 universities, 15/29 polytechs
 - proposed goal 12/2007: 16/20 univs, 20/29 polytechs
- Current partners
 - Elsevier inc
 - Personec Oyj (ASP service provider)
- > Several universities have Shibboleth in intra-organisational use
- Haka is only for higher education and research institutions

Home organisations (IdP) Service Providers (SP)

9 IdPs

- University of Helsinki
- University of Oulu
- > Lappeenranta University of **Technology**
- Pirkanmaa Polytechnic
- University of Tampere
- Tampere University of **Technology**
- Helsinki University of **Technology**
- Abo Academi
- University of Turku

138 000 end users

3 library services

- Nelli portal
- HUT Library database
- Univ Oulu Library database

3 learning management systems

- Moodle /TUT
- > A&O/TUT
- Optima/Oulu

CSC's own services

Scientist's Interface FÉIDE







Funet extranet

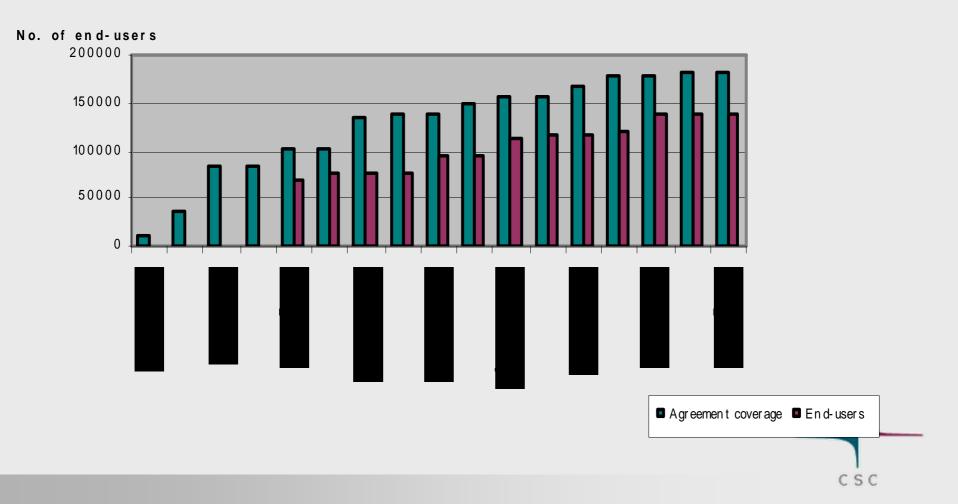
Student administration

JOOPAS

43000 logins in April



Number of end users in Haka



Recent areas of development

- > the WAYF moved to a commercial 24x7 machine room
- monitoring, reporting and configuration management of a federation (part of GN2/JRA5)
 - how to make sure that all the IdPs and SPs are up and running
- Library content providers as SP (Elsevier)
 - Who is "a student, staff or library walk-in"?
 - urn:mace:dir:entitlement:common-lib-terms
- > trying to find companies that provide 'Shibboleth as a service'
 - Shib IdP hosting, Shibboleth consulting
- preparing for SAML2.0 and non-Shibboleth implementations in Haka



Pilots

- Internet2 CourseID attribute on Shibboleth
 - for authorization of learning management systems
 - in Tampere univ of Technology
- Internet2 Grouper ver 1.0
 - for group management in Helsinki univ of technology
- > Shibboleth and strong authentication
 - potentially using the PKI/smartcard that the ministry is pushing

funetEduPerson 2.0 released

- http://www.csc.fi/suomi/funet/middleware/haka/fep/
- adopts schac and eduPerson 200604
- new attributes
 - funetEduPerson(Primary)StudyStart, funetEduPerson(Primary)StudyToEnd
 - funetEduPersonCreditUnits, funetEduPersonECTS
 - funetEduPersonHomeCity (national numeric codes for cities)
 - funetEduPersonStudentCategory
 - funetEduPersonStudentStatus (absent/present)
 - funetEduPersonStudentUnion (membership in the student union)
 - funetEduPersonEPPNTimeStamp (to tackle reassignments of EPPN)
- interpretation of eduPersonAffiliation
- MUST attributes: cn, sn, displayName, eduPersonPrincipalName, schacHomeOrganization, schacHomeOrganizationType

fep 2.0: Defining categories for students

<u>funetEduPersonStudentCategory</u>	<u>eduPersonAffiliation</u>
Bachelor	Student
Master	Student
Licentiate	Student
Doctor	Student
Other-degree	Student
Visiting-student	Student
Exchange-student	Student
Qualifying-studies	Member
Further-education	Member
Open-university	Affiliate
other	affiliate



Shibbolising commercial services

- > ASP services: Personec
 - Competence management: Personec HR: shibbolized
 - HR registry: Personec f/ESS, tendering process going on
 - Travel administration: Personec Travel, technically feasible
- ASP services: WM-data
 - Rondo(circulation of incoming invoices): waiting for the State Treasury of Finland to do decisions



Things outside universities (1): Authenticating citizens

- VETUMA: a common authentication hub for citizens in public sector services
 - relies on
 - 1. TUPAS, the authentication service provided by banks
 - 2. FINEID card, the government's citizen card
 - 3. ETSI 102-204, certificates in the SIM card (to be released later)
 - a bank authenticates the citizen, and provides the National Identification Number to the service in HTML/POST form (proprietary, not SAML)
 - some universities are using/going to use VETUMA for password reset (significant cost saving in the help-desk)



Things outside universities (2): Authenticating state officials

- ➤ GovernmentIT program: a project for authentication and authorisation of government officials in government's services
 - 25% of government officials are employed by universities!
 - ASP services, other services
- Ministry of Education pushing PKI/smartcard to key officials in the universities' administration
 - CA Population Registry Center, the government CA of Finland
 - related to the GovernmentIT program
- Are the activities and Haka Federation going to benefit from each other?

