Infraservices - Core Middleware Enablers of eBusiness		Electronic Identity Swedish Higher Education
2005-09-21 Torbjörn Wiberg CIO, UmU		 About 15 institutions with a "Faculty of" About 20-25 other higher ed institutions Around 350-400k students Around 50% in the 6 biggest universities Around 65k personnel
T Wiberg, UmU	1	2



- non-specialist users are active in electronic workflow
 These trends tend to make all our students and/or all our personnel (non-specialist) users of more and more of our systems
 Managing some Directory Information
 Tur och Retur (trovel expenses)
 Ladak på webb (student records)
 Nya (rutional student admittance system)
 Diariet (workflow for formal business)
 Personal portals
 eInvoices
 Salary specifications
 Reservation of Seminar rooms
 It is accelerating!



Vision

My vision is that the AAI shall provide a functionality that facilitates the following scenarios: • A studen that visits another European campus shall, after being authenticated by his home authentication service be authorised to use basic services at the campus he visits

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- A student at another european campus shall after registering as a student on a course at our campus have the same authorisation to use learning mgmt system and portals
- course at our compus have the same authorisation to war the same authority of the same authority

How do we get commitment from Swedish HigherEd to go there?

- Provide Return of Investment material
 Certificates, PKI, Smart Cards
 Identity and Privilege Management
 Externalising AA
 Offer education for management and technicians Work hard with coordination and harmonisation * Schemas: norEduPerson, norEduOrg, norEduCouse * fight the not-invented-here reactions * introduce a national roaming and initial logon service Current duibble Scheman
- Suggest suitable Software
 Demonstrate of successful steps from early adopters weight and successful steps from early adopters weight and successful steps from early adopters weight and successful steps from early adopters weight adopters adopters weight adopters adopters weight adopters

Federated Model for Authentication and Authorization I believe that eServices shall be based on a model where

Authonizations shall be done by the home organisation
 Authonizations may be given to members of virtual organisations belonging to a trusted Identity Federation

Identity

- Identity Federation It should be possible to base the authorization decision on advice from the virtual orthganisation and/or the home argonisation. (A resource may be allocated to a project but both the project manager and the user's home organisation may have an opinion on how the resource shall be allocated within the project) In order for this model to work
- The concept of an identity and the corresponding assertion must harmonize over the federation and must be understoad by the resource owner
 The meaning and form of data or information services used for giving authority, must harmonize over the resource, virtual and home organisations
- This model is used in the Authentication and Authorization Infrastructure in GEANT2
- ≈ To succeed with eGov or other eBus we must make it possible to realize such a model



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Electronic Identity

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We can not do it on our own

- National level
 Codex-se started as a group cooperating around iPortal

 LU, CTH, Unu, SU, UU, OU, KTH, (KT, LU)
 Retreast so far 7 workshops for initial experiments and piloting
 CAS as an Authentication Service as a uPortal channel
 SPOCP as Authonication Service for Ladok p3 Webs
 STA developed cover a complementation of the protocol
 Thematic conferences softer (C)- on topics we want to know more about
 Unit(r) plafform to use for finding partners to work with in cooperative projects to develop software or other components of the infrastructure
 Service, SPOC, BL, oreGu.-shomes
 OpenSource Software in the AAI and for general services (web, mail, portals, ...)
 by using Open Source software weigt access to code for doubting and the result back into the OpenSource projects
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Electronic Identity We can not do it on our own

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International level of harmonisation, coordination and project partnership

 Formation
 Solido harmonisation
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- An Enterprise Directory that supports the other components
 Principals, Organisational Units and Resources
 An Identity Management System
 An Authentication Service with ...
 At least one Authentication Mechanism

- At least one Authentication Mechanism
 User Name/Password
 PKI Certificates
 Arivilage Management System
 Information to base authority decisions on
 Mantained by those with authority to delegate and appoint
 A Authorisation Service
 Content Access Control and
 General Authorisation
 (A Network Logon Service)