

ICT trends: growing applications

- Shared apps
 - ◆ Self service interfaces
 - ◆ Library services
 - ◆ Administrative services
 - ◆ Reporting systems
- National apps
 - ◆ Government portal
- Local apps
 - ◆ e-learning
 - ◆ portals
 - ◆ wireless access
- Local apps with outside users
 - ◆ All of the above
 - ◆ Project workspace

Federated identity systems

- FEIDE – a common ID and authentication platform for Norwegian education
- GNOMIS - Nordic AAI-cooperation
- EduGain – a European authentication architecture - perfSonar
- Eduroam – a WLAN access service based on common authentication scheme for Europe R&E

Nordic AAI

- Gnomis (Greater Nordic Middleware Symposium)
- workshops on middleware (9'th in Helsinki last week)
- Kalmar Union – a project to create a Super Federation.
 - ◆ Technical demo done
 - ◆ Policy-work

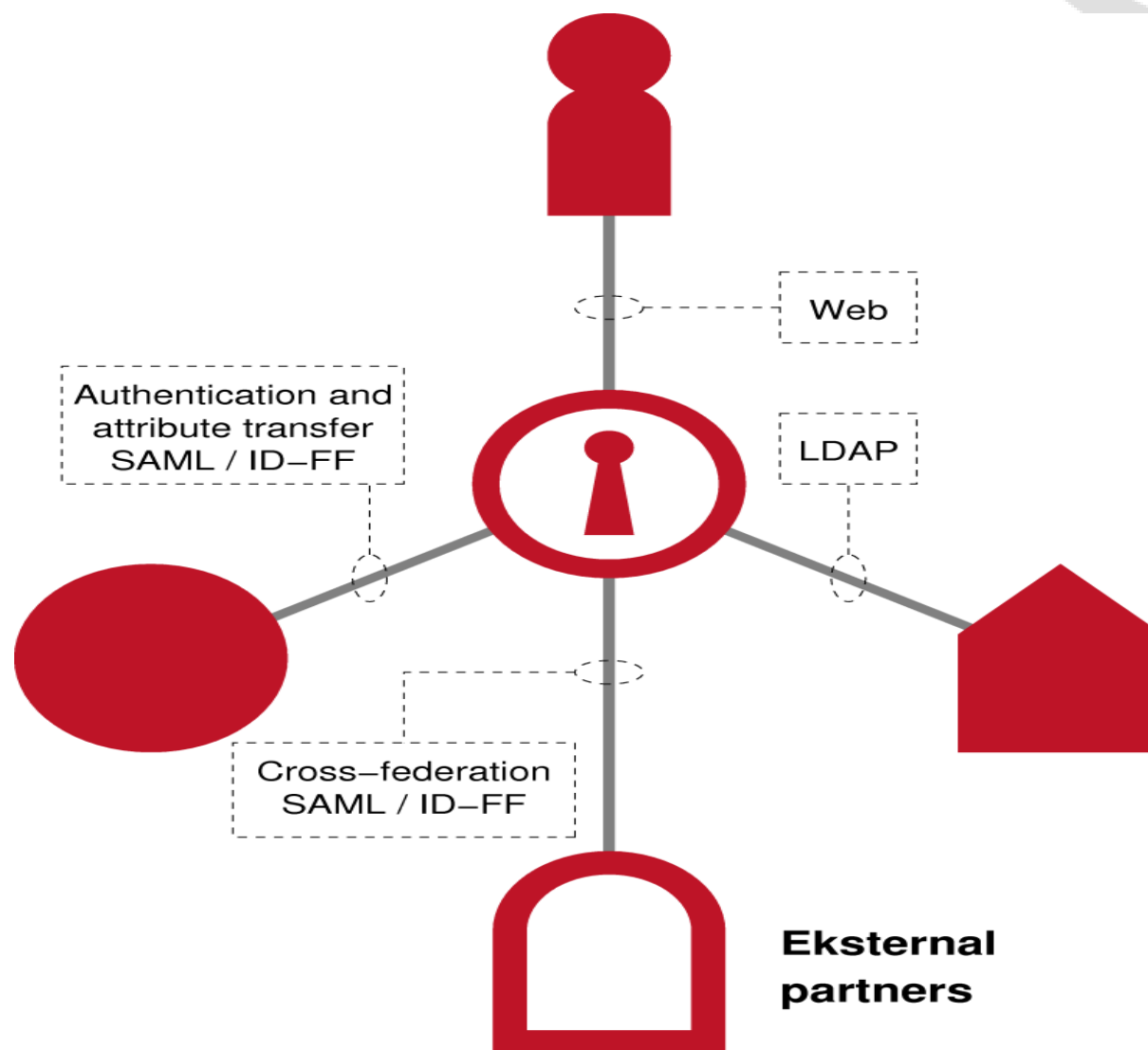
Feide – Federated Electronic Identity for Norwegian Education

- A non-commercial identity management federation for people in education
- Technology and platform agnostic
- Guidelines and policy for campus identity management
- Feide-names are valid for all education services
 - ◆ Internal administrative services
 - ◆ Community services
 - ◆ Educational related services
- Local identity providers
- Identity Provider infrastructure by FEIDE

Business drivers for Feide

- Each university benefits from
 - ◆ Local dataflow clean-up
 - ◆ Overview and control of services
 - ◆ Common guidelines, requirements and best practice for identity management
- University as Service Provider benefits
 - ◆ Easy integration of non-local users
 - ◆ Data protection contracts and guidelines
- Common shared services benefit from
 - ◆ Integrated user space
 - ◆ Data protection contracts and guidelines

FEIDE interfaces



Feide federates education



Federations:

- authenticate
- enforce information flow policy
- privacy control
- security
- trust establishment

Collaboration




- Strong involvement from universities and colleges
- Backing from Ministry of Education and Research
- Partnership with commercial technology partner (Sun) for open source Liberty software
- International participation: Terena TF-EMC2, eduGAIN, GNOMIS, Internet2
- National activity
 - ◆ PIFU - for person information standardization (bulk exchange)
 - ◆ PETWEB - privacy

Eduroam

- Terena Task Force on Mobility (2000-)
- Same secure way of accessing campus networks
 - ◆ Simplifies travelling – same account everywhere
 - ◆ Easier handling of guests
- Most western european countries
 - ◆ APAN is in
- Operational several years
 - ◆ Policy framework almost there
- Use FEIDE ID in Norway
- Trondheim – to be the first eduroam city ?

Eduroam in Europe



-  Countries that have joined
-  Countries in the process of joining
-  European Root

>>> ASIA MAP



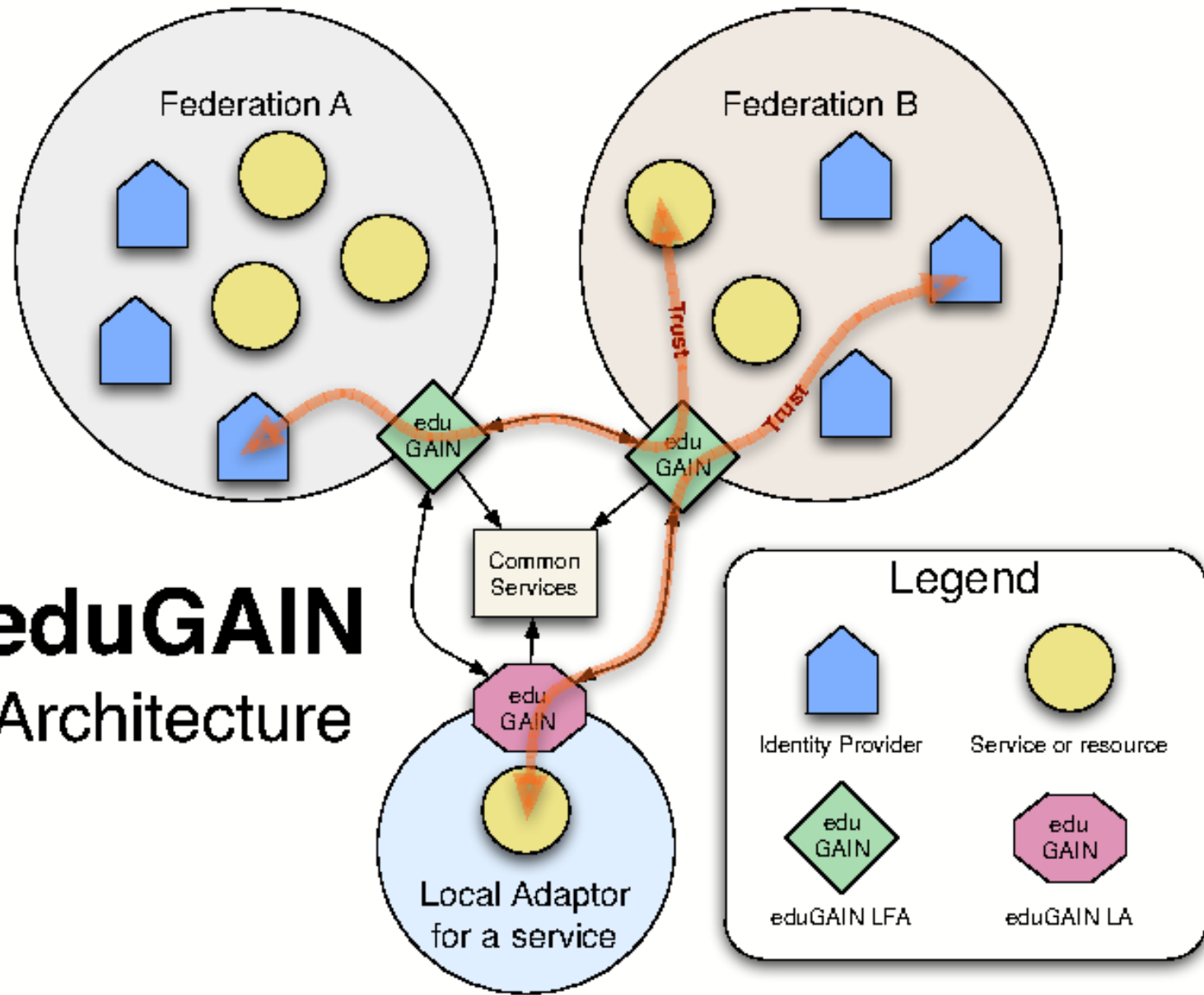
Eduroam technically

- WLAN Essid 'eduroam'
 - ◆ Based on IEEE-802.1x
- Use home credentials via Radius infrastructure
 - ◆ scales technically, administratively
 - ◆ FEIDE for Identity lookup
 - ★ Radius ask LDAP
- Workshops with customers on WLAN construction
- New : Radius server-server secure proxy

SIP-based services

- SIP – Session Initiation Protocol
- For personal communication : telephony, video, chatting, presence
- email-like address : sip:user@domain
- SIP-pilot in UNINETT, deploying SIP-servers on campus
- User logs in to SIP-registrar to report presence
- Use FEIDE ID for authentication

eduGAIN Architecture



Edugain application

- Integrate with
 - ◆ Shibboleth, FEIDE, PAPI, A-select
- Services
 - ◆ all that supports the above ...
 - ◆ perfSonar
 - ◆ eduroam II ?
- Technically
 - ◆ SAML with exchange schemas

Summary

- Common ID benefits all
- Information services
 - ◆ Institutions : Integrate internal systems
 - ◆ Service providers
 - ◆ Users
- Other services
 - ◆ Network access (eduroam)
 - ◆ Network services (SIP)
 - ◆ Network management(perfSonar)
- Supports globalization of R&E

More information

- <http://www.feide.no/index.en.html>
 - ◆ ingrid.melve@uninett.no
- <http://www.eduroam.no>
 - ◆ jardar.leira@uninett.no
- <http://www.uninett.no/SIP>
 - ◆ olav.kvittem@uninett.no

Collaboration builds education