

eduroam, eduGAIN and Social Identity Mapping

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GÉANT

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The computer lab



 $Image\ URL: http://www.fox.temple.edu/cms_about-fox/technology/it/resources/computer-labs/$



University Modem Pool



Image URL: http://www.epicycle.org.uk/weblog/2003/feb2003-2.htm

Image URL: http://encyclopedia2.thefreedictionary.com/modem

eduroam eduroam

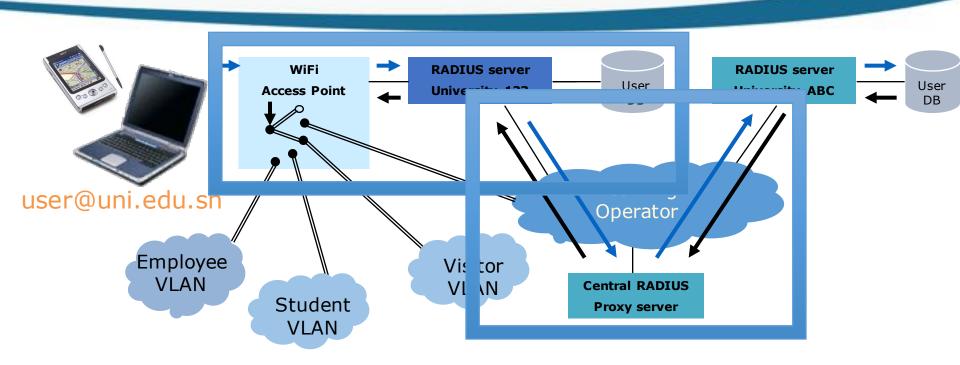
education roaming

Secure Wireless Service for Research and Education



eduroam Infrastructure





signaling data

- Trust based on national policy
- Security based on 802.1X/RADIUS
- VLAN assignment to separate users

Where is eduroam?



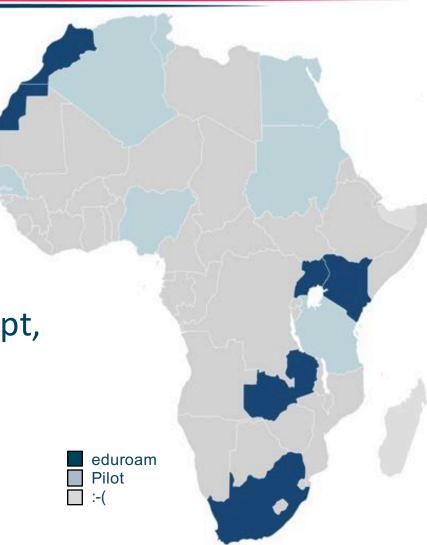


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eduroam in Africa

5 production deployments
 Kenya, Morocco, Uganda
 South Africa, Zambia

7 pilot deployments
 Nigeria, Senegal, Algeria, Egypt,
 Sudan, Tanzania, Tunisia.





Back into the computer lab



Image URL: http://www.fox.temple.edu/cms_about-fox/technology/it/resources/computer-labs/

The Situation on Campus: Lots of Applications





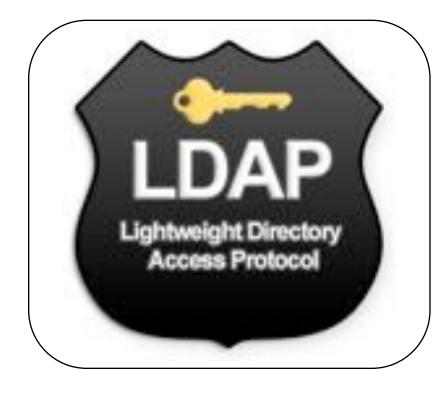
- More applications for students and researchers
- Applications require authentication and authorization



Solution #1: LDAP

- Centralised Password & Account Storage
- Re-use of Accounts/Password across applications
- Focus password security at one location

One account for all applications





Solution #2: Web Single Sign-On (SSO)

- Centralised Account Login
- Re-use of Accounts across applications without another login (while your session is valid)
- No Man-in-the-Middle password attack from LDAP connected applications
- Still limited to the campus...



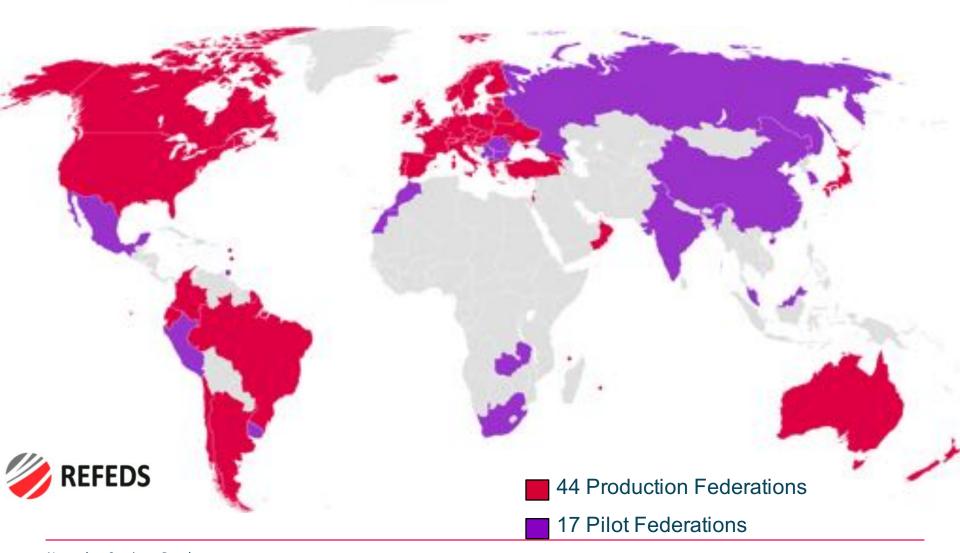
Solution #3: Federations Lots of Federations...





Identity Federations: World Wide





No interconnection between federations





Networks · Services · People www.geant.org

Global Authentication INfrastructure



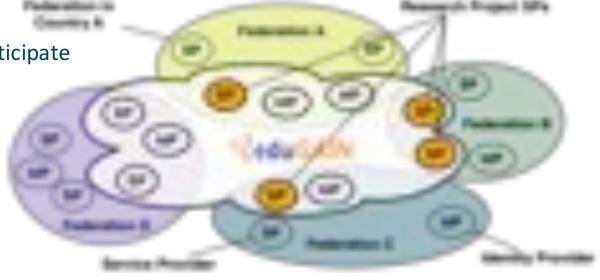


eduGAIN: Global Authentication INfrastructure



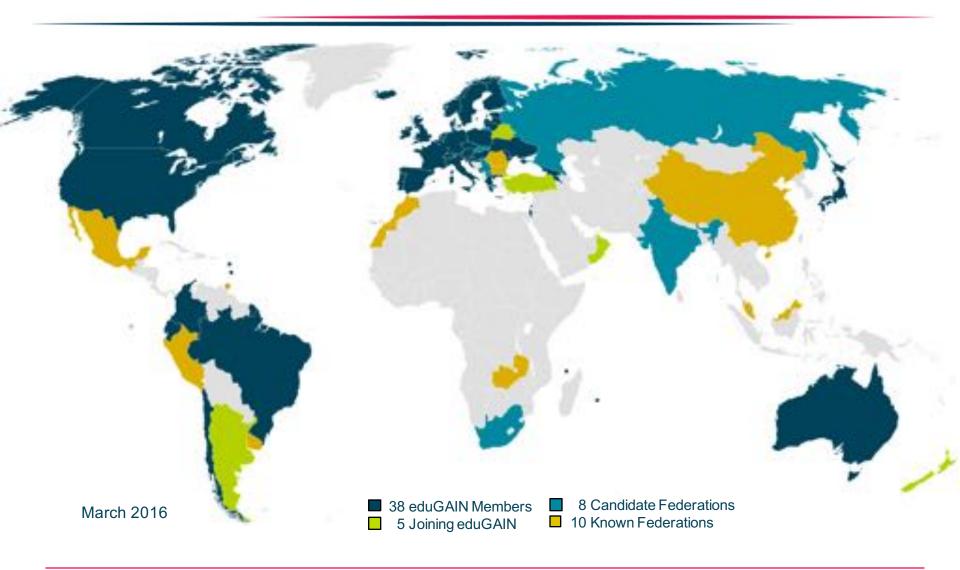
- Contribute the valuable resources from your federation to a global pool
- Services:
 - Free
 - Licenced
 - Project Specific
- People:

Allow everyone to participate



eduGAIN & Federation Status

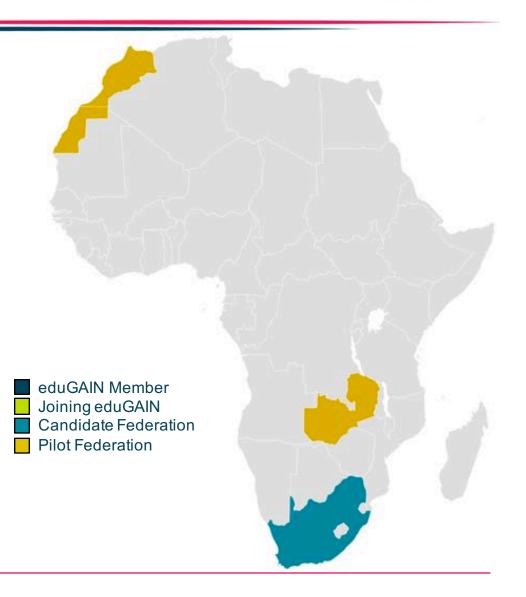




Identity Federations and Africa



- eduGAIN Participant / Joining
 - None ⊗
- eduGAIN Candidate
 - South Africa
- Pilot/Known Federations
 - Morocco → eduIDM
 - Zambia (supported by SURFnet)
 - NgREN Federation
 - WACREN EduID



Federation Development Criteria



Pilot

Name, Webpage, Metadata Feed

Production

Policy for IdPs & SPs

Candidate

Metadata Registration Practice Statement

eduGAIN

Declaration Signed, Metadata Feed Validated

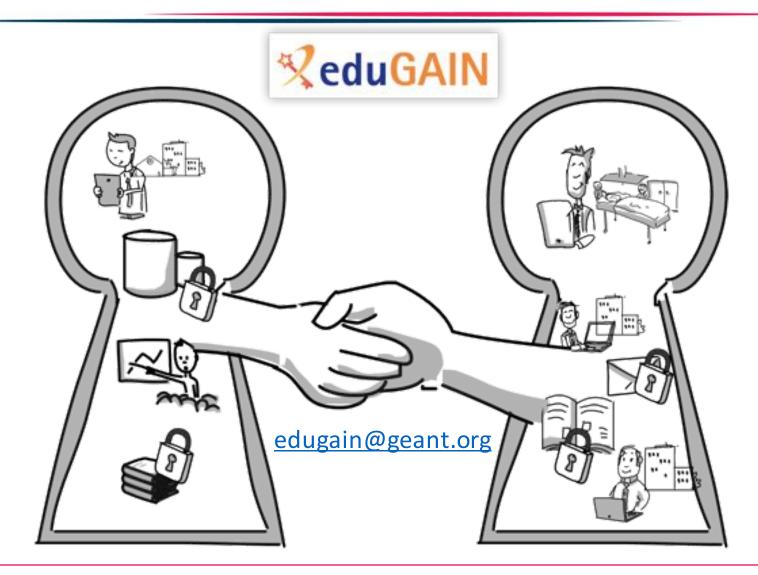




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We're here to help...



Social Identities...







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Thank you and any questions



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