

InCommon – Ten Years Old and Still Growing !

Steven Carmody
Brown University
Sept 15, 2014
CANS 2014

Why A Federation ?

- Scalability
 - Avoid the pain of managing bilateral relationships
 - User Identity asserted by local campus (from local Business Systems)
- Share a common policy base (eg R&S)
- Simplify recovery – (eg key expiration)
- Incident response
- Share/assume common approaches
- Support for Virtual Organizations (VOs)
- “community”
- Provide a vehicle for evolution ...

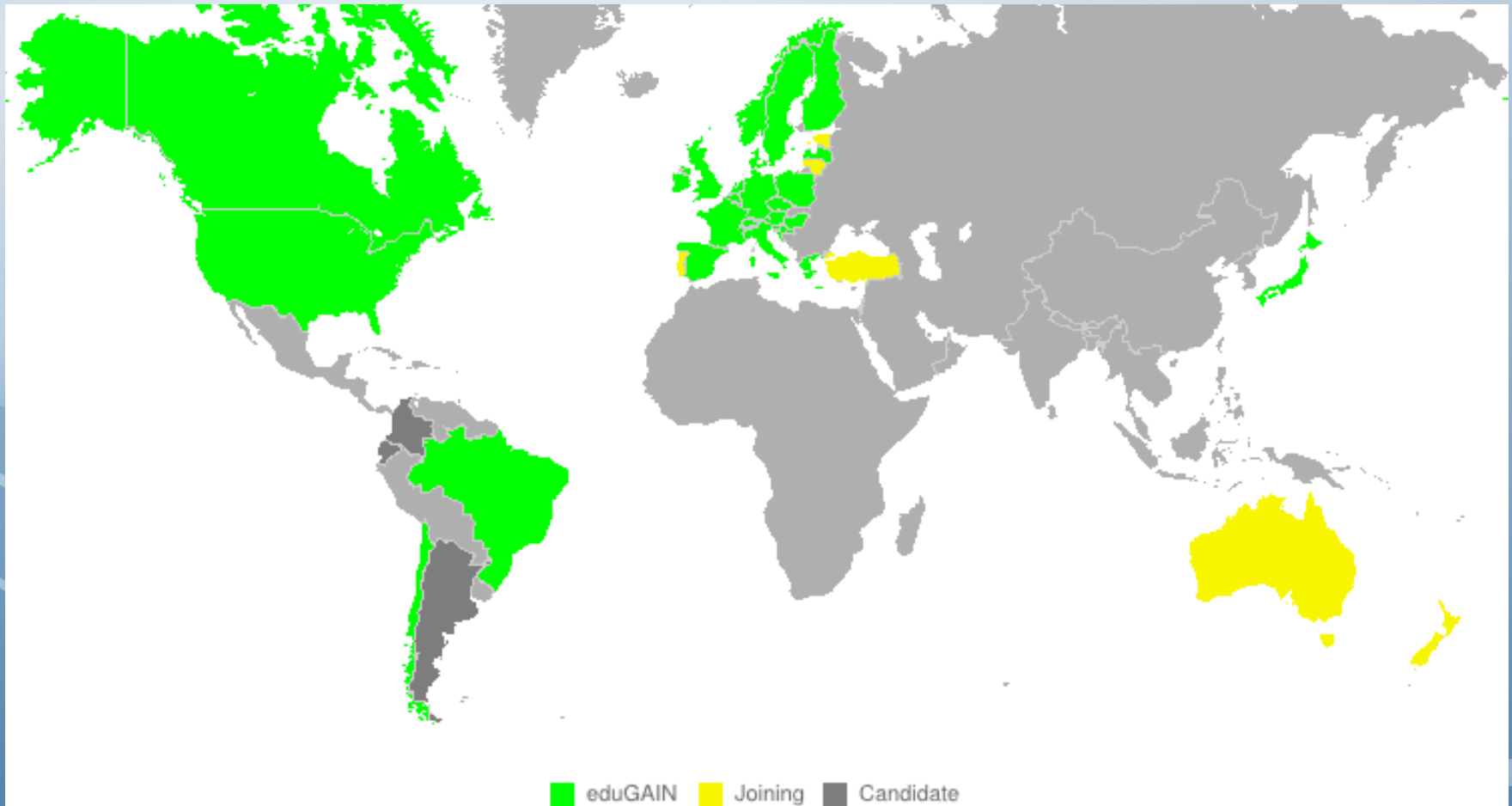
Current Activities

- Full Participation in eduGAIN
- Participation in REFEDS
 - Eg Definition of REFEDS R&S TAG
- eduROAM
- Full Coverage of US Higher Ed
 - Provide new options to campuses desiring to Federate
 - Availability of Social-SAML Gateway
- Preparing for the Future
 - The homogeneous nature of members will be changing

eduGAIN

- A “federation of federations”
- Existing National R&E Federations “join”
 - Join means “declaring” that you are operating in compliance
 - There is no contract with eduGAIN
- Federations publish some or all of their Federation metadata to eduGAIN
 - Opt-in and opt-out models
- eduGAIN assembles and publishes an aggregate file
- Each Federation decides how to make the eduGAIN aggregate available to its members
- eduGAIN Is now much bigger than pan-European

eduGAIN Members - <http://edugain.org/technical/status.php>



InterFed – Why ?

- Research is a Global Community
 - Research Projects now regularly include partners from other institutions, other countries, other continents
- Instruction is now a Global Community
 - Co-teaching across continents
- Our presence here today ..
 - Is evidence of this trend

Use Cases - LIGO

- Laser Interferometer Gravitational-Wave observatory
- A worldwide Collaboration of Physicists
 - We have members at Tsinghua University.
 - We have a memorandum of understanding with one or more astronomical collaborations that have members at the Academy, in particular at the Institute of High Energy Physics and the XinJiang Astronomical Observatory.
 - We are currently providing identities for these scientists from our guest IdP of last resort

Use Case – Plant Science

- Ben Montgomery, Division of Natural Sciences & Engineering, University of South Carolina Upstate
- My research collaboration in China started about three years ago with a National Science Foundation of China Research Fellowship for International Young Scientists for 200,000 RMB.
- The initial project was to investigate the effects of invasive goldenrod from North America on native plants in China.
- I collaborated with Shi-Guo Sun at Shanghai Normal University and Bo Li at Fudan University to publish a study on this topic.
- I am also continuing to work on a collaborative project investigating the effects of nursery pollinators on several species of *Silene* in Shangrila, Yunan, China. This collaboration is with Shuang-Quan Huang, at Wuhan University

eduROAM

- A secure, world-wide roaming access service developed for the international research and education community.
- Relies on a web of interconnected RADIUS servers (not SAML)
- Now available in 69 territories world wide.
 - **... and over 5500 locations worldwide!**
 - <https://www.eduroam.org/index.php?p=where>
- Travelers authenticate at their home campus, and then use the local wireless
- <https://www.eduroam.org/>

eduROAM-US

- [https://www.eduroam.us/
eduroam us institutions](https://www.eduroam.us/eduroam_us_institutions)
- 184 Participating Campuses
- Available here today !

Full Coverage of US Higher Ed

- Provide new options to campuses desiring to Federate
 - Use of cloud-based IDM and Federated IDM services
- Availability of Social-SAML Gateway
 - For individuals, from that campuses that are not yet Federated
 - For campuses that are already using GAE to authenticate their users ?

Preparing for the Future

- The homogeneous nature of members will be changing
- eduGAIN IDPs and SPs
- IDPs that do NOT manage their members in the same way as campuses (eg Social to SAML Gateway)

Questions ?

Slide title goes here

www.internet2.edu

INTERNET[®]
2