



MAGIC

Collaboration Tools and Agreements for Global Communities

María José López and Brook Schofield | RedCLARA and GÉANT Organization | 22-10-15 | ICT2015, Networking session: Towards global research e-Infrastructures for 2020 and beyond



Background - ELCIRA



- ELCIRA: Europe-Latin America Collaborative e-Infrastructure for Research Activities.
- 2-year project led by RedCLARA (2012-2014), co-funded by the EC.
- Focused on fostering the deployment of eduroam & AAI, developing collaboration tools and reliable VC services, while promoting research communities between Europe and Latin America.



General Objective



To establish a set of agreements for participating world regions to consolidate/complete middleware for a marketplace of services and real-time applications to benefit global science communities.

A collaboration project
to globally connect
researchers and academics

Africa - Arab States - Asia - Latin America - Europe - The Caribbean



Specific Objectives



- To enable mobility and seamless access to **services** by:
 - promoting the **establishment of identity federations** connected to **eduGAIN**,
 - creating awareness of **privacy and security** issues, and
 - increasing the uptake of **eduroam**.
- To enable the provision of **collaboration tools and services** among **NRENs based** on NREN-run applications made available via a worldwide application market.
- To seek **consensus on interoperability of real-time applications** and work towards the **adoption of standards** such as those proposed by the Global CEO Forum.
- To **foster the collaborative work of Global Science Communities** by actively promoting the participation researchers in European Commission Calls, etc.



Partners



- Grant Partners

- RedCLARA (Latin America) - Coordinator
- GÉANT (Europe)
- RENATA (Colombia)
- RNP (Brazil)
- SURFnet (Netherlands)
- REUNA (Chile)
- CEDIA (Ecuador)
- CUDI (Mexico)
- RENATER (France)
- GRNET (Greece)
- CESNET (Czech Republic)
- CKLN (Caribbean)
- UbuntuNet Alliance (S&E Africa)
- WACREN (W&C Africa)
- ASREN (Arab States)
- TEIN*CC (Asia-Pacific)
- CAREN NOC – NITC (Central Asia)
- NIIFI (Hungary)
- CSIR (South Africa)

- MoU Partners

- InnovaRed (signed)
- APAN (in process)
- AARNet (in process)



Collaboration tools



- **WP2: Platforms for Mobility**
 - To design the best architecture for Federations to be implemented in the participant regions
 - On-line and face-to-face training and workshops in Identity Federation and eduroam deployment
 - In-class training to establish identity management professionals
- **WP3: Cloud Provisioning and Groupware Standards**
 - Agreements for a Federated Group Management (FGM) Standard and Application Programming Interfaces (API) for it
 - Definition of a set of applications that will adopt the FGM Standard
 - Recommendations for Service Definitions from a marketing point of view
 - Pilot portals for the participant regions as appropriate, incorporating the FGM Standard (Colaboratorio: already implemented by RENATA and CKLN)
 - Definition of a standard for interoperability of cloud provisioning
 - Deployment of a pilot Federated Cloud Service Model for NRENs



Collaboration tools



- **WP4: Agreements for Real Time Collaboration**

- To foster the adoption of the NRENum.net standard, for universal dialing using the Domain Name System (DNS) infrastructure: NOW! Take the Open course on NRENum.net and DNS Configuration - just visit www.magic-project.eu
- To promote, and work with the GRTC group on the deployment of a global standard for federated directories
- To integrate H.323 and MCONF to achieve unified communications for the academic world (have you tried VC Espresso? - find it through Colaboratorio >> RedCLARA)



Collaboration tools



- **WP5: Global Science Communities**
- Agreements on a set of Worldwide User communities of common interest to the participating regions
- Implementation of an Information System on Worldwide funding opportunities aimed at the end users and the user communities
- Development of a set of Worldwide Virtual days to foster collaboration at a worldwide scale on the above selected topics
- H2020 Virtual information days to promote participation in International Calls
- Training material for the use of Cloud provided applications for collaboration
- Worldwide User communities virtual meetings and seminars
- **You have a community and you think our tools and services could help you? Contact us! Visit our web site and through our contact tell us about your community and we will find how to foster your community collaboration.**



Key advances (I)



- Training in the Arab States and The Caribbean on AAI and eduroam
- Training in Latin America on NRENum
- NRENum deployment course in Spanish, English and French available on line
- NRENum already deployed in: Ecuador, El Salvador and Mexico. Soon in Chile, Costa Rica and Uruguay. Candidates countries include: Sénégal, Nigeria, Morocco and others.
- 7 Groupware standards in analysis to seek for interoperability



Key advances (II)



- Colaboratorio Portal deployed in Ecuador (CEDIA), Costa Rica (CONARE) and Nigeria (NgREN). It will soon also be deployed in the Arab States (ASREN), Argentina (INNOVA RED) and México (CUDI). UbuntuNet and WACREN are also working on deploying it.
 - Webconference (MCONF)
 - Social Network for Researchers
 - Large File Sharing (UNINET)
 - Conference Organisation (INDICO-CERN)
 - More tools coming
- Open source tools provided locally or in cloud form by NRENs for NRENs



The Case for NRENs

A REPOSITORY OF RESOURCES TO SUPPORT FUNDING, ADVOCACY
AND THE ADVANCEMENT OF NATIONAL AND REGIONAL R&E NETWORKS

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Search this site



- The Case For NRENs: led by GÉANT, is a collaboration of ASREN, CAREN, C@ribNet, RedCLARA, TEIN*CC, UbuntuNetAlliance and WACREN. Visit: <http://www.casefornrens.org/>
- NRENs are essential in providing advanced ICT services to the research and education communities. Whilst they are well established in Europe, countries in other parts of the world face difficult challenges persuading stakeholders of the inherent value in operating an NREN.
- Open the Case and find: the information, messages and tools to demonstrate the role and value of NRENs and progress towards sustainable organisations.





MAGIC

Middleware for collaborative Applications and
Global virtual Communities

<http://www.magic-project.eu>

**You have a community and you think our
tools and services could help you?
Contact us!**

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