



#### **CLARA-TEC 2013**

Cartagena de Indias – Colombia 10 de julio de 203

Leandro Guimarães (RNP) Gustavo Garcia (CLARA)

Conference: ELCIRA Review Year 1

Date: June 25, 2013 Place: Brussels, Belgium

# Summary



The ELCIRA Project aims to coordinate a series of collaboration tools and services that are being developed in Europe and Latin America in order to provide an interoperability framework that facilitates the work of European-Latin American research teams and to foster collaboration in joint research projects.





# **Objectives**



- To foster the creation of federations in LA for authentication, authorisation and identity (AAI) mechanisms and its integration with Europe's EduGAIN
- To coordinate the development and deployment of collaboration tools and services for research communities of Europe and Latin America by:
  - Setting the grounds for the development of a Europe-Latin America High Quality Video Conference Service integrated with EduCONF.
  - Create and promote a prototype collaboration Portal for user communities of both continents, based on a Cloud Style version of RedCLARA's Portal enriched with open source tools developed in Europe.





# **Objectives**



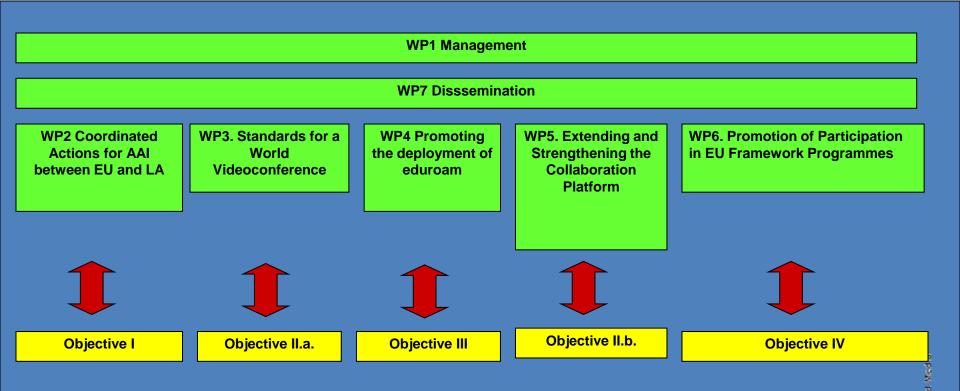
- To foster the deployment of eduroam services in the Latin American countries.
- To promote collaboration of Latin American and European researchers through: information, dissemination of funding opportunities, training and electronic collaboration tools and other activities.





#### **WP Distribution**











#### **WP Leaders**



- WP1: RedCLARA
- WP2: RNP
- WP3: RENATA
- WP4: RNP
- WP5: RedCLARA
- WP6: RedCLARA
- WP7: RedCLARA











### 1<sup>st</sup> Periodic Review

**WP2** - Coordinated Actions for AAI between EU and LA

Conference: ELCIRA Review Year 1

Date: June 25, 2013 Place: Brussels, Belgium

#### **Overview**



#### **Partners**

- CLARA
- GARR
- RNP
- TERENA
- RedIRIS

#### **WP Focus:**

 Promoting and consolidating the foundations for creating a framework for authentication and authorisation in Latin America, and facilitate the integration with the European initiatives under TERENA activities such as TFE EMC2 and REFEDS, and will make the necessary arrangements to join the GÉANT service eduGAIN







# **WP2 - Objectives**



- To promote, coordinate and support the effort of a critical Latin American authorization and authentication infrastructure (AAI) for academic services and processes;
- To create pilot identity federations in two countries as a basis for further extension to the rest of the members of RedCLARA.
- To create virtual courses to enable technical teams of Latin American NRENs to provide local training in their own constituency.
- To define the technical and policy requirements to integrate a federated AAI in Latin American and Europe.
- To implement AAI interoperability and interoperation with Latin American federations and their European counterparts.
- To provide a roadmap for future strategies and decision-making regarding collaboration with other world regions regarding identity authorization and authentication processes.





### **WP2 - Deliverables status summary**



Deliverable #	Deliverable Title	Status
D2.1	Roadmap for the delivery and deployment of National AAIs in Latin America, and development of how-to documents to support implementation.	Delivered
D2.2	Online Training Material on AAI development for Staff training	Delivered
D2.3	AAI pilot	Delivered
D2.4	AAI preparation	Delivered
D2.5	AAI implementation	In progress
D2.6	Follow-up Recommendations and Final Progress Report	In progress





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## **Inter-Federation Development**



Name, Webpage, Metadata Feed

Production

Policy for IdPs & SPs

Candidate

Metadata Registration Practice Statement

eduGAIN

Declaration Signed, Metadata Feed Validated

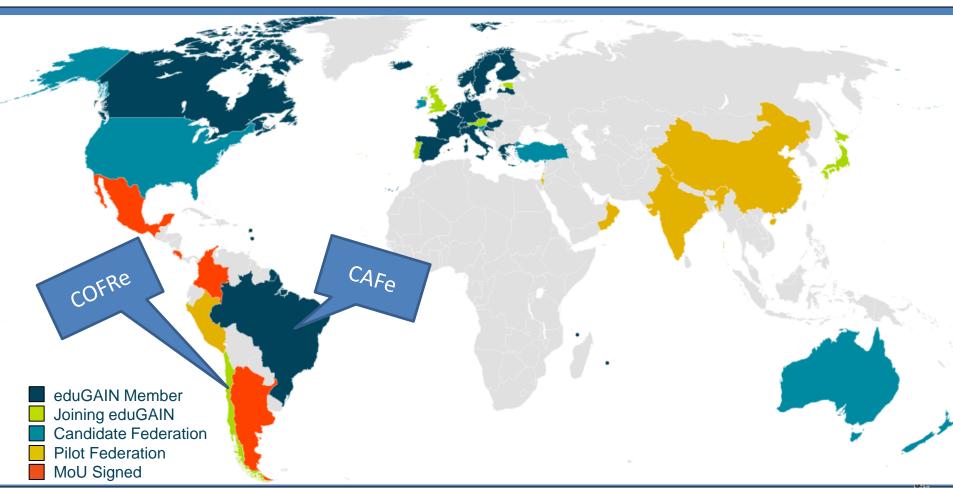




Communications Networks, Content and Technology

## Word-wide eduGAIN status...











# Identity Federations and Latin America



- eduGAIN Member
  - Brazil (CAFe)
- eduGAIN Candidate
  - Chile (COFRe)
- Pilot Federation
  - Peru
- Emerging Federations
  - Argentina, Colombia,
    Costa Rica, Mexico





#### **Problems and Concerns**



- Policy often more difficult than technical issues - Chile was 1<sup>st</sup> world-wide to adopt Policy Template from GÉANT/REFEDS;
- Different models of sustainability in the NRENs in Latin America;
- Few technical people involved in the project;
- NREN commitment/focus in setting up eduroam infrastructure ahead of AAI.





# Next steps



- Presentation at TICAL 2013;
- Launch of federation in Argentina, Peru, Colombia and Mexico;
- Chile and Peru joining eduGAIN by the end of 2013;
- A study between GÉANT and ELCIRA to look at the possibility of creating Federation as a Service (FaaS)









#### 1<sup>st</sup> Periodic Review

WP4 - Promoting the deployment of eduroam services

Conference: ELCIRA Review Year 1

Date: June 25, 2013 Place: Brussels, Belgium

#### **Overview**



#### Partners:

- CLARA
- RNP
- TERENA
- RedIRIS

#### **WP Focus:**

 integration with the European eduroam initiative, with the necessary arrangements for joining the service offered. This includes liaison with GÉANT which owns the European eduroam confederation service. TERENA will also facilitate participation of Latin America in the Global eduroam Governance Committee.

DG CONNECT





# **WP4 - Objectives**



- To promote, coordinate and support the effort of a Latin American infrastructure for an education roaming service (eduroam);
- To create the infrastructure to support eduroam processes in two countries and establish the bases to expand this pilot to the other members of RedCLARA.
- To create/update virtual courses to train NREN technical teams in order to replicate the action in their NRENs and for their customers.
- To define the technical requirements of an eduroam exchange point between Latin America and Europe.
- To implement eduroam interoperability and interoperation with Latin American federations and their European counterparts.
- To provide a roadmap for future strategies and decision-making regarding collaboration with other world regions regarding eduroam.







## **WP4 - Deliverables status**



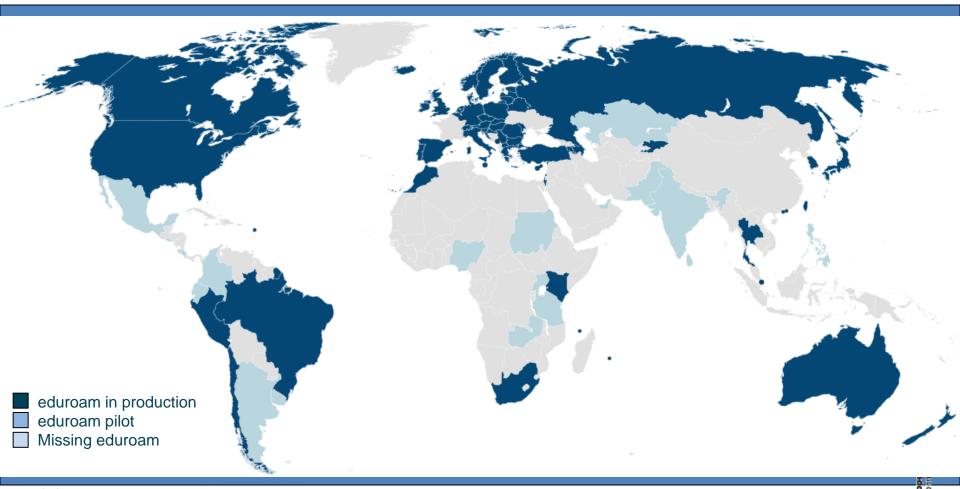
Deliverable #	Deliverable Title	Status
D4.1	Demonstration of eduroam at TICAL 2012 Conference.	Delivered
D4.2	Roadmap for the delivery and deployment of National eduroam (RO) in Latin America	Delivered
D4.3	Material of Virtual course for technical staff training on line	Delivered
D4.4	Pilot eduroam Infrastructure for training purposes	Delivered
D4.5	Report on eduroam preparation	Delivered
D4.6	eduroam Implementation	In progress
D4.7	Follow up actions and perspectives	In progress





## Word-wide eduroam status...











#### eduroam in Latin America



#### 3 production deployments

- Brazil, Peru, Chile

#### 7 pilot deployments

Argentina, Colombia,
 Costa Rica, Ecuador,
 El Salvador, Mexico,
 Uruguay.





# eduroam statement signed







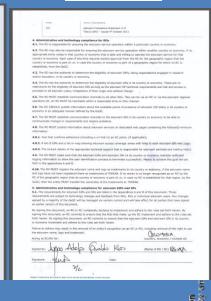




PART .	101,6 / 469966403					
3/4 eduroam Compliance Statement v1.0 TSec(11)043 – Issued 4° October 2011						
Acting as RC/RD for: MEXECO (country, economy / multiple of)						
Francis No.: Carlos Caracis I	opes Hermosa as Legal Representative of CUDI the Mexican MREN (Name of RO / RC)					
	erons one 5th pret 2013					
Signature: 8 CM	Date of Ame					
	ance Statement Appendixes					
	hnslogy compliance for eduroam Identity Providers					
	glement a RADBUS interface to connect to the eduraem routing febric.					
	glement an EAP method for all local users that is suitable for wireless networks as well as wired,					
and supports mutual auther	tication and end-to-end encryption of credentials.					
A.3. eduroam lidfs MUST se request.	nd a RADIUS accept message for valid authenticated local users for which they receive an access					
A.4. eduroem ldPs MUST N	OT send a RADIUS accept message for invalid users or those who are not authenticated.					
A.S. eduroam IdPs MUST pr and resolve.	ovide support to their users. Any support matters may be escalated to the RO or RC to coordinate					
timestarrip of a  the outer EAP is  the inner EAP is  the MAC addres  type of authent	pil authentication attempts, the following information HGST for recorded; behavioration request and corresponding response worthy in the authentication request (provinces attribute) worth and the authentication request (provinces attribute) or all the convention claim (California Positionia attribute) or after convention claim (California Positionia attribute) is all mortine, which authorize requires conveniences.					
S. Administrative and ter	hoology compliance for educam Service Providers					
8.1. eduroam SPs networks	MUST implement 802.1X with a RADIUS interface to connect to the educaem infrastructure.					
	.11 wretess networks MUST broadcast the SSID "eduraiem". If there is more than one eduraiem SP (D starting with "eduraiem" MAY be used.					
	.11 wireless networks PHIST support WPA2+AES, and MAY additionally support WPA/TKIP as a hardware. Exceptionally, an SP established before January 1, 2012, MAY support only WPA/TKIP 1, 2013					
8.4. eduroam SPs networks	MUST provide IP address and DNS resolution auto-configuration infrastructure.					
8.5. eduroam SPs networks	SHOULD provide routable IP addresses, and MAY provide NAT translation.					
8.6. eduroam SPs SHOULD infrastructure.	forward all EAP-messages, destined for eductors participants, unmodified to the eductors					
8.7. educam SPs MUST N	of charge users or their eduroam IdPs for being admitted on the eduroam SP's access networks.					
	re based on SP local politics. However, modifying the context of user connections (e.g., access deny arbitrary ports or application-leyer proxies) is strongly discouraged and MUST be reported to					
	keen sufficient lossing information to be able to identify the responsible Identify provider for the					



	e and technology compliance for ROs	
	sponsible for executing the educates service operat	
appropriate antib country or ecoso	racists in that country or economy that is able as my. Each case of this kind requires explicit approx my is part of, or, in case the country or economy i	i from the RC for the geographic region that the
	the authority to determine the eligibility of educas , in its sourcey or accounty.	n IdPs, being organisations engaged in research
restrictions for if	the authority to determine the eligibility of edema is eligibility of educasm SPs as long as the eliumin arrays users, irrespective of their origin and witho	SP technical requirements are met and eccess is
	T establish communication channels to all other for BC MUST be reached the within a reconsistable time of	its. This can be vis an RC or via the educam regional in this channel.
	ULD publish information about the available points reposite manner defined by the GeGC.	of presence of educam (SP sites) in its country or
	T satisfiels communication channels to the extense right in requirements and resolve problems.	to SPa to its country or economy to be able to
4.8. The RO MUS Information:	T publish information about educions services on a	edicated web pages curtaming the following minimum
4.6.1. Yest that	confirms adherence (including a set link) to an RC (	okcy (Espakowie);
4.8.2. A 92 of 0	Ps and a list or map showing educions access one	rage areas with links to each educorn SHs web page;
4.8.3. The conta	t details of the appropriate technical support that	is responsible for educam services and making lob(s).
		SPs in its country or economy maintain sufficient sale successfully. Please to achieve this goal are set
and logo have no RC of the geogra-	Liters registered there as tredemarks of TERESA.	who in the country or economy, if the advisors name if an entity is no began recognised as as 50 by the re, in case res 60 is established for that region, by the to to TERSIA.
\$.1. The requirer requirements are agreed by a may		
forth terein. By a		onest and address to the nines set forth feesen, dy name up the XC Implement and address to the rates set of the educator, MPs and educator SPs in the country
	may result in the removal of an entity's recognition, logo and inscionant,	n as an RC or RD, including removal of the right to use
Acting as RC/RO	costa rica	(country, economy / multiple of)
Signed by:	REDCONARE	(Name of 80 / 80)
Spanie 1	Weno de sa Ossafone	15/05/2013 2000 N. D.
		(SE) CEN
THE R. P. LEWIS CO., LANS.	CHEST AND ESSENTIAL REPROPERTY ASSESSMENT	(8)









# WP2 and WP4 Summary status · Élcira



Country	NREN	ELCIRA partner	eduroam Status	Federation Status	eduGAIN status
Brazil	RNP	Yes	In production	In production	Member
Chile	REUNA	Yes	In production	In production	Candidate
Peru	RAAP	No	In production	Deployment	-
Colombia	RENATA	Yes	Candidate	Deployment	-
Argentina	Innova Red	Yes	Candidate	Deployment	-
Costa Rica	CONARE	Yes	Candidate	Deployment	-
Mexico	CUDI	Yes	Deployment	Deployment	-





#### **Problems and Concerns**



- Different sustainability models at the NRENs in Latin America;
- Few technical people involved in the project;
- Delay in NREN commitment in setting up eduroam infrastructure





# Next steps



- eduroam available at TICAL 2013;
- Creation of Latin America Confederation;
- Presentation in TICAL 2013;
- Launch of eduroam in Argentina, Costa Rica, Colombia and Mexico;
- A study between GÉANT and ELCIRA to look at the possibility of creating Federation as a Service (FaaS)







# Thank you!

RedCLARA\_Comunica@redclara.net



