**European Union's FP7 Programme
DG Connect**
**Directorate C: Excellence in Science
Unit C1: e-Infrastructure**

Europe Latin America
Collaborative e-Infrastructure
for Research Activities

Deliverable D2.5

AAI Implementation

A project of the Seventh Framework Programme (FP7)

This project is funded by the European Commission

A project implemented by RedCLARA

Periodical Progress Report

ELCIRA Deliverable: D2.5 - AAI Implementation

Document Full Name	**AAI Implementation**
Date	**November, 2013**
Activity	**WP2 (Coordinated Actions for AAI between EU and LA)**
Lead Partner	**RNP**
Document status	**Final**
Classification Attribute	**Pubic**
Document link	

Abstract: This deliverable will describe the result of project's execution phase in the last 4 months. It will include as well an update of the work plan for the entire project with an update of the risks.

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ELCIRA (Europe Latin America Collaborative e-Infrastructure for Research Activities – Call (part) identifier: FP7-INFRASTRUCTURES-2012-1 – Project number: 313180) is a project co-funded by the European Commission within the Seventh Framework Programme (FP7), Infrastructures (DG Connect, Directorate C: Excellence in Science, Unit C1: e-Infrastructure). ELCIRA began on 1st June 2012 and will run for 24 months.

For more information on ELCIRA, its partners and contributors please see http:/elcira.redclara.net

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DELIVERABLE ROUTE

	Name	Member/Activity	Date	Responsible
From	Leandro Guimarães	WP2	18/10/2013	RNP
Revised by	Antônio Carlos Fernandes Nunes	WP2	19/11/2013	RNP
Approved by	Florencio Utreras	WP1	21/11/2013	RNP

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1.- INTRODUCTION

Since we first thought about this project, we were sure that this work package was one that would be one of the most complicated to implement, due the complexity of the theme Authentication and. Authorization Infrastructure (AAI - Identity Management) and the lack of knowledge and skills in the technical team in the target NRENs.

During the planning phase, we have discovered some heterogeneous environments. There was an NREN that was very interested in the topic, but they lacked the necessary manpower resources to work on it, at the other extreme, there was a NREN that planned to launch an Identity Federation, take it into production and study how to join the eduGAIN interfederation service.

This document will describe all work performed in 2013.

2.- INITIAL SCENARIO

When we have started this work package, we have defined the milestone to start the job; the MoU signed by the NREN's responsible. We thought that doing this we would raise the attention of the project to the member's directors while give the necessary power and support to technical staff to implement a federation. The Figure 1 shows the initial scenario in the beginning of 2013:
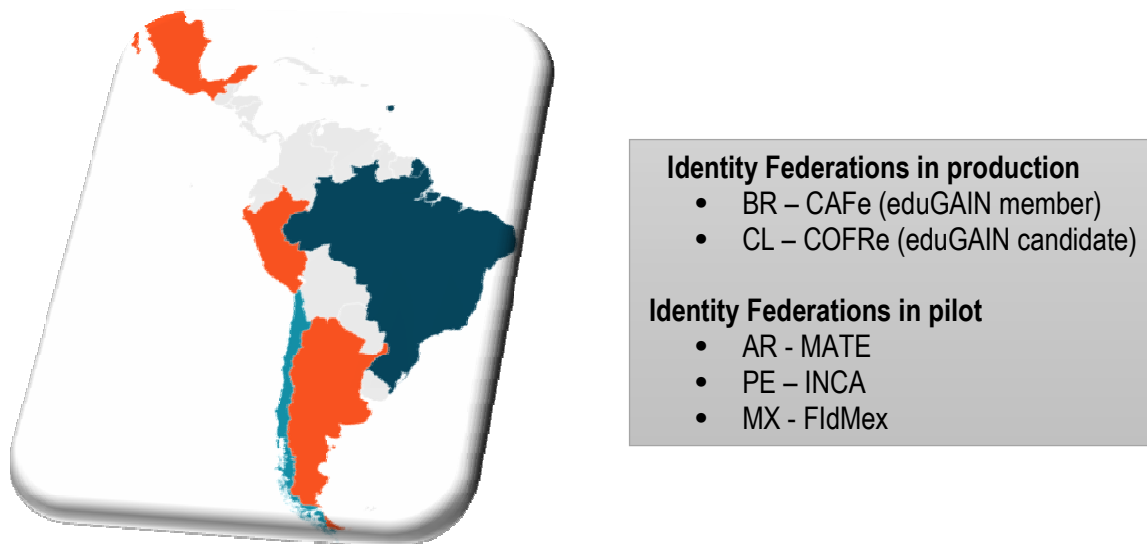

Identity Federations in production
- BR – CAFe (eduGAIN member)
- CL – COFRe (eduGAIN candidate)

Identity Federations in pilot
- AR - MATE
- PE – INCA
- MX - FIdMex

Figure 1: Identity Federation in january 2013.

As described in "Deliverable D2.1 - Roadmap for the delivery and deployment of National AAIs in Latin America", during the kickoff meeting in Lima, Peru in July, 5th, 2012, three countries were identified as federation startups: Chile, Peru and Colombia. After this date, Mexico and Argentina also expressed interest.

The next section will provide more details on the development of federations in Latin America.

3.- CHILE - THE FEDERATED COMUNITY REUNA (COMUNIDAD FEDERADA REUNA OR COFRE)

Since 2011, REUNA has been working to establish a Chilean Federation to its partners and clients. In this context, since 2012 CONICYT (Comisión Nacional de Investigación Científica y Tecnológica, http://www.conicyt.cl/), as a founder member of the Corporation Cincel and BEIC (Biblioteca Electrónica de Información Científica - http://www.beic.cl/) Program participant, has adopted the Chilean Federation as central scheme to facilitate access to scientific collections to researchers.

Bellow some information regarding COFRe:

3.1 IDENTITY PROVIDER ORGANIZATIONS

- Universidad del Bío-Bío.
- BEIC-CONICYT.
- REUNA.

3.2 SERVICES PROVIDERS

- Annual Reviews.
- Thomson Reuters Web of KnowledgeSM.
- GISELA Science Gateway.
- EBSCOHost (EBSCO).
- ScienceDirect and Scopus (Elsevier).
- Nature.
- Palgrave Journals.
- CRCnetBASE (CRC Press).
- SpringerLink and Springer for R&D (Springer).

 The Figure 2 shows the webpage from COFRe, available at: http://cofre.reuna.cl/index.php/en/ .
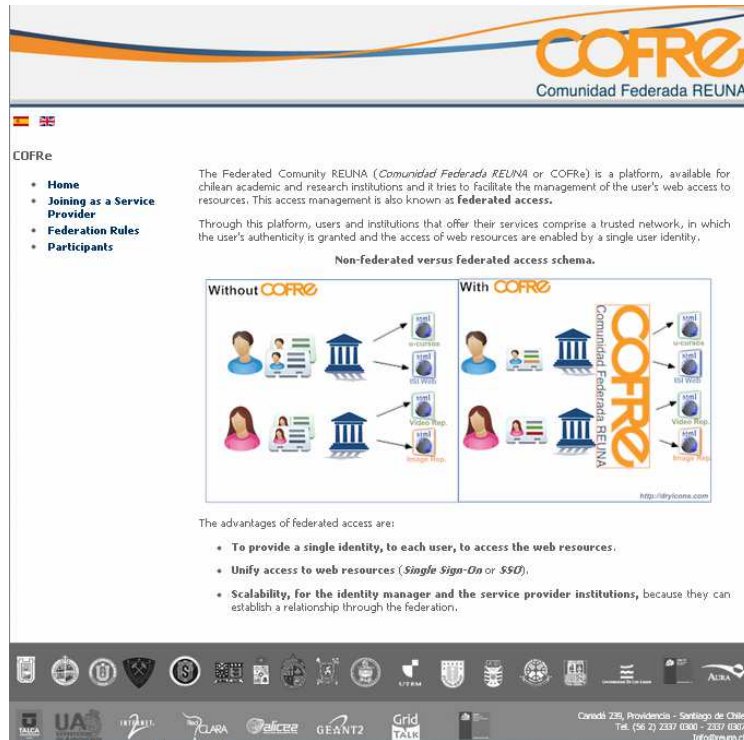
Figure 2: COFRe webpage.

Although work on the Chilean Federation had already begun when the ELCIRA Project started, the WP2 team helped REUNA to transition to production and eventually join eduGAIN.

In September 2013, REUNA has signed the MoU with ELCIRA Project, to cooperate in promoting the establishment and adoption of Identity Federations and additional services based on them (eduroam, eduGAIN, cloud services) in the country. This MoU was a concretion of a work that had been doing since the kick-off meeting in June 2012. In December, 2012, the meeting in Santiago, Chile, has helped to strengthen the relationship between ELCIRA and REUNA even more, so the project team and REUNA technical staff had started to work together in order to make COFRe part of eduGAIN, what was completed on October, 31st, 2013.

4.-   MEXICO – FIDMEX (MEXICAN IDENTITY FEDERATION)

The project team started to talk with CUDI Team in the beginning of 2013, and the situation was very encouraging, due the forward status of Mexican Federation. The Mexican federation is hosted by UNAN (Universidad Nacional Autónoma de México) and is under development.

The Mexican Identity Federation is working to offer the following services:

- FIDMex: An IdP installed: idp.grid.unam.mx
Status: service is in production and is a partner in Identity Pool Grid Federation GrIDP.

- IdP and SP for courses platform DGEST: https://sp.dgest.gob.mx/moodle
Status: the service has not been released, under development.

- SP for the UCOL virtual services: https://entidades.ucol.mx/
Status: the service has not been released, under development.

- SP Science Gateway – fesc08.lemdist.unam.mx
Status: under development.

- SP institutional digital repository that allows the publication and dissemination on the CUDI multimedia content
Status: under development.

The Figure 3 shows the webpage from FIDMex, available at:
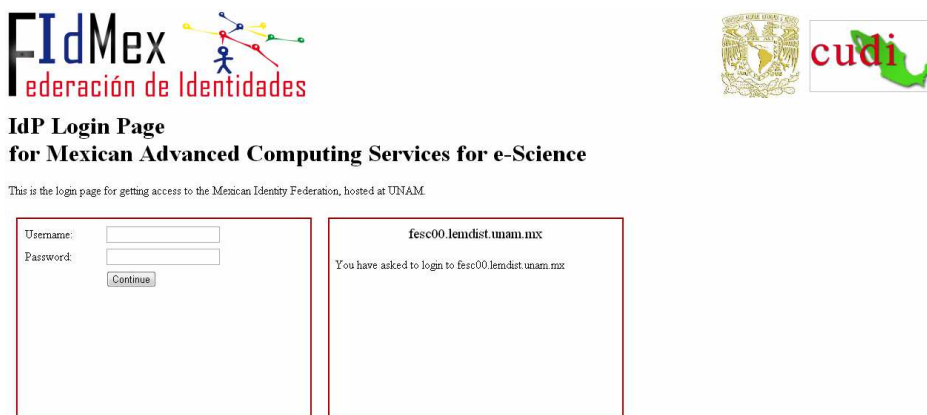https://idf.grid.unam.mx/idp/Authn/UserPassword.

Figure 3: FidMex webpage.

The WP2 is working with technical staff of CUDI and UNAM in order to organize the federation, creating a Mexican Federation, managed by CUDI and operated by UNAM. The scope is assembling the Mexican Federation avoiding functional duplication.

Another duty is develop together with CUDI and UNAM, the necessary governance model and structure, to ensure the sustainability of the service.

## 5.- COLOMBIA – COLFIRE - COLOMBIA FEDERACION DE IDENTIDADES RENATA

The Colombian team had been focused on eduroam implementation initially then started to work on an identity federation. The RENATA IdP was installed, validated, and integrated with active directory, linked to a SP without inconvenience and performing authentication. They are creating the Discovery Service and all policies involved to have the Colombian Federation launched early next year.

6.- ACTUAL SCENARIO

When we have started this work package, we defined a milestone to start the work, the MoU signing which involved the following countries.

The Figure 4 shows REFEDES map in the November of 2013, available at:
https://refeds.org/docs/REFEDSmap-1013.pdf.
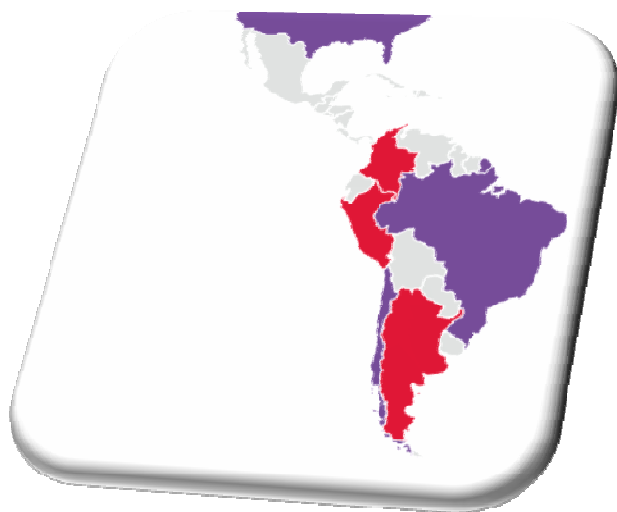
Identity Federations in production
- BR - CAFe
- CL – COFRe

Identity Federations in pilot
- AR - MATE
- COL - COLFIRE
- PE - INCA

Figure 4: Identity Federation in November 2013.

To mark future milestones the following stages were defined for the ELCIRA project. Currently Chile/COFRe and Brazil/RNP have reached the stage of interfederation via eduGAIN while the 3 MoU signing countries remain at "pilot". Work is underway to prepare the necessary policy documentation so that can progress further.
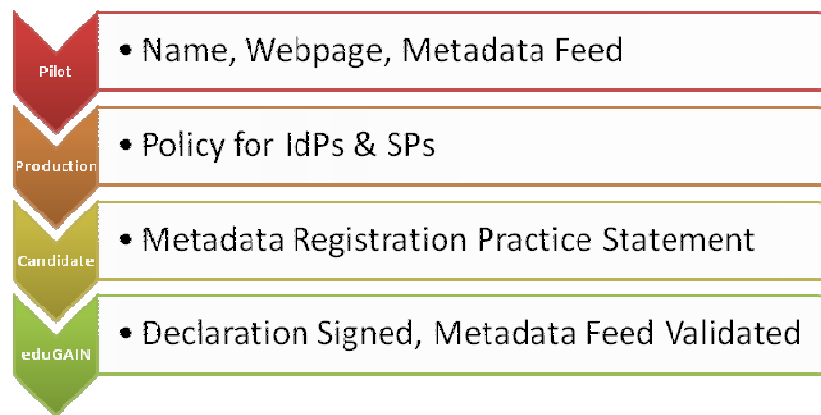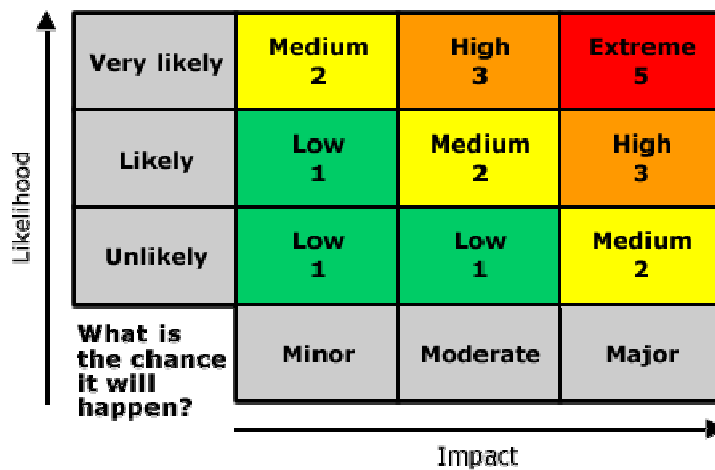

Figure 5: Identity Federation Stages within ELCIRA.

7.- RISK ANALYSIS UPDATE

It will include an assessment of the work plan for the entire project with identified risks and the mitigations to be applied.

Work Plan Item	Risk Assessment	Risk deadline	Mitigation	Risk update
Agreement on the collaboration relationship between the European eduGAIN end ELCIRA (MS2)	1 – Low	October, 2012	eduGAIN has welcomed new LA federations as a federation external to Europe. No barrier should be encountered for other LA federations.	MoU signed in June, 2013 (http://elcira.redclara.net/news130617.html). *Risk eliminated*
Agreements with two NRENs to work on Federation Implementation (MS2)	3 – High	October, 2012	Three (3) specific NRENs have been targeted to overcome any delay in the signing of an agreement.	The MoUs were signed on: **Argentina**: April 4th, 2013 **Costa Rica**: April, 17th, 2013 **Colombia**: May, 22nd 2013 **Mexico**: June, 5th 2013 **Chile**: August, 23nd 2013 *Risk eliminated*
Wiki of the 2 new Federation members (MS2)	1 – Low	October, 2012	REFEDS wiki catalogues all emerging and developing federations.	Still working with federations. **Risk remains**
On line Training Material on AAI development for Staff training (D2.2)	1 – Medium	December, 2012	Training materials already exist but in English and Portuguese and the risk of a delay in translation can be overcome with alternative translators.	The training material was developed as described on *D2.2 On line Training Material on AAI development for Staff training.* *Risk eliminated*
AAI Pilot Operational (MS9)	1 – High	March, 2013	Create commitment in the NRENs in order to implement the federation.	Still working with federations. **Risk remains**