Bienvenidos a Curso de Creación de Federación de Identidad y Federación eduroam para las Redes Académicas

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Agenda

Jueves (11/07/2013 – 09:00 – 17:00)

- Brazilian NREN - AAI & eduroam (Leandro Guimarães)
- Break
- Creación de Federación de Identidad para las Redes Académicas (Camila Santos) – Parte 1
- Almuerzo
- Creación de Federación de Identidad para las Redes Académicas (Camila Santos) – Parte 2

Viernes (12/07/2013 – 09:00 – 14:00)
- Creación de Federación eduroam para las Redes Académicas (José Luis Quiroz Arroyo) - Parte 1
- Break
- Creación de Federación eduroam para las Redes Académicas (José Luis Quiroz Arroyo) – Parte 2

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Brazilian NREN - AAI & eduroam

Leandro Guimarães
Service Manager
RNP – Brazilian NREN

Ministério da
Cultura

Ministério da
Saúde

Ministério da
Educação

Ministério da
**Ciência, Tecnologia
e Inovação**

GOVERNO FEDERAL
BRASIL
PAÍS RICO É PAÍS SEM POBREZA

CKLN
Caribbean Knowledge
and Learning Network

C@ribNET

02/2013

AGENDA

Federation

- What is Federation?
- Main Concept
- Federation in Brazil
- How it works?
- Governance
- Status
- CAFe Evolution
- eduGAIN – A strong aliance
- Identity Federation in the world
- Other AAI project in Latin America

eduroam

- eduroam Big Bang
- eduroam development in Brazil
- Where can we use it?
- How it works?
- Requirements
- Other eduroam project in Latin America

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What is Federation?

"Union of different communities that trust each other and who share the same rules and because of that have access to specific services."

What is Federation?

*"**Union of different communities that trust each other** and who share the same rules and because of that provide access to specific services."*

Humans

Vulcans

Klingons

??????

What is Federation?

*"Union of different communities that trust each other and **who share the same rules** and because of that provide access to specific services."*

What is Federation?

*"Union of different communities that trust each other and who share the same rules and **because of that, provide access to specific services.**"*
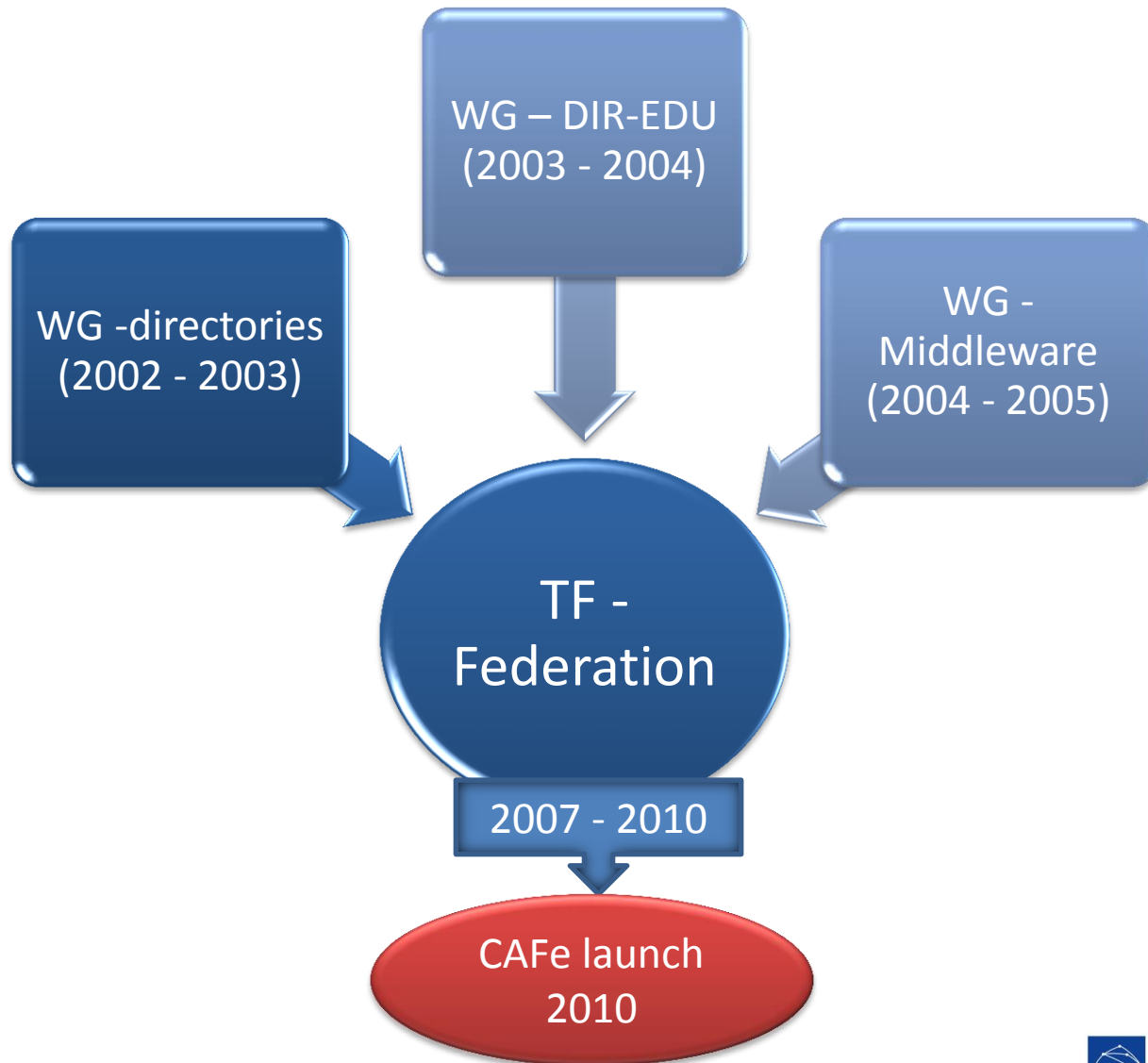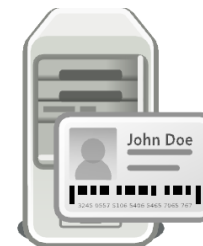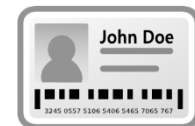
MAIN CONCEPT

FEDERATION IN BRAZIL

FEDERATION MODELING

WG – DIR-EDU (2003 - 2004)

WG -directories (2002 - 2003)

WG - Middleware (2004 - 2005)

TF - Federation

2007 - 2010

CAFe launch 2010

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1

CAFe, how it works?

CAFe – Components

- **Components:**
  - Users;
  - Identity;
  - Identity providers (IdP);
  - Service Providers (SP).
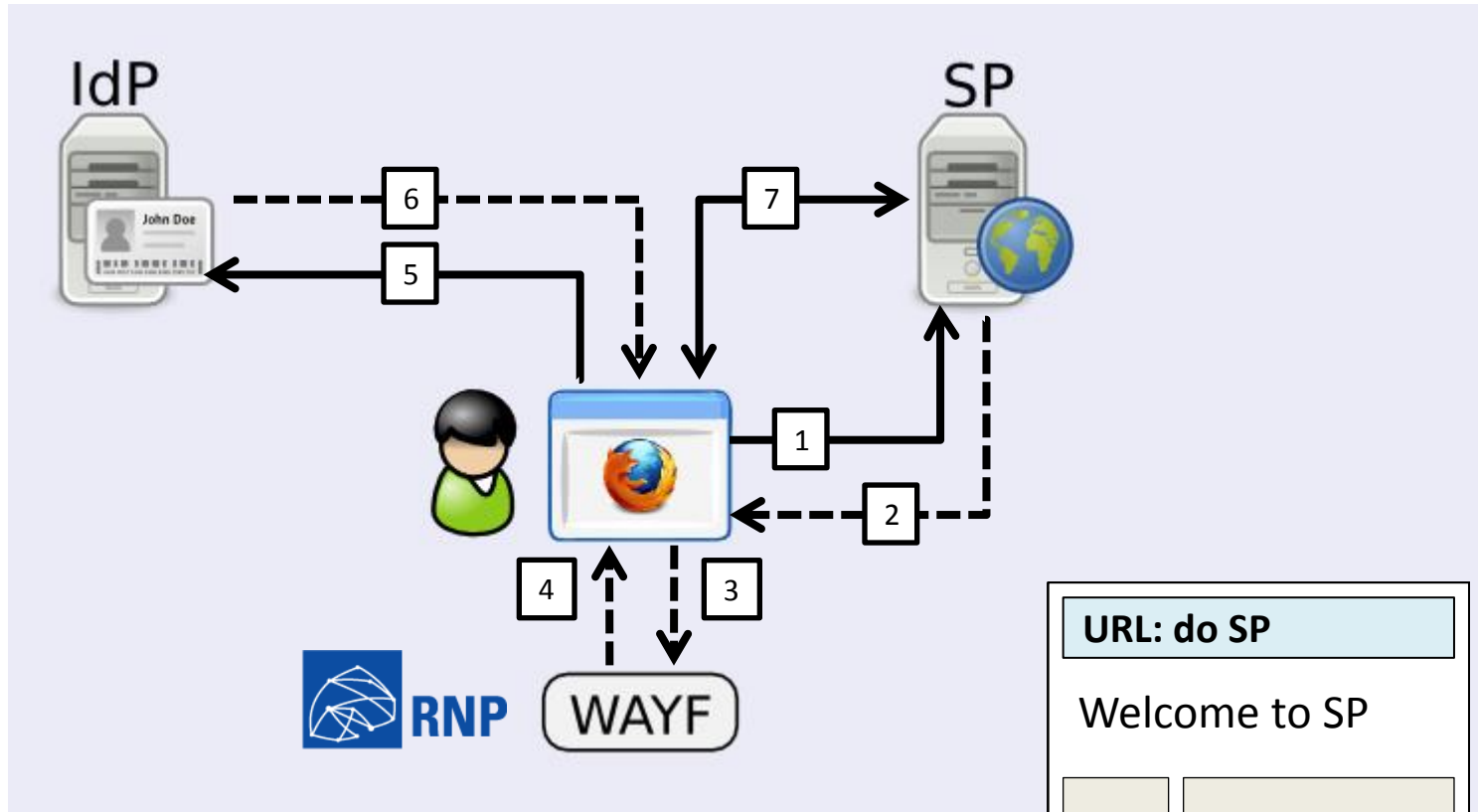
GOVERNANCE

Service Management

AAI Advisor Comitee

AAI Technical Comitee

CAFe Operation and 2 level support team

PKI Operation and 2 level support team

Eduroam Operation and 2 level support team
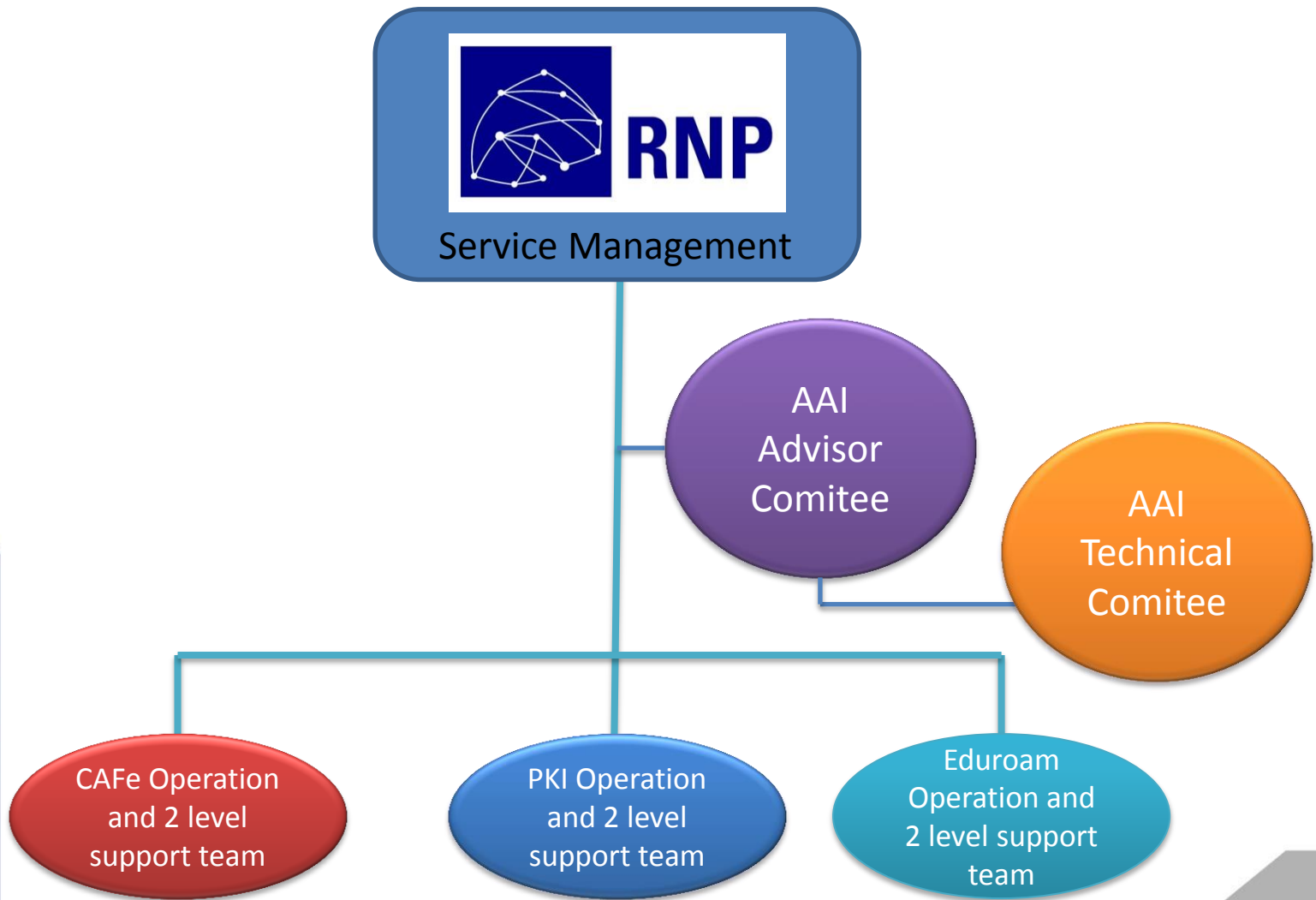
CAFe – Status

6 IdPs: IMPA (A), UFMG (B), UFMS (C), UFPA (D), UFRGS (E), UFSC (F) and UNIVASF (G)

CAFE IN 2013 - IDP

39 IdPs! - 650% growth – more than 200% every year

Atlases

Microsoft DreamSpark

.periodicos. CAPES

Microsoft DreamSpark

.periodicos.
CAPES

eduGAIN
PART OF THE GÉANT SERVICES PORTFOLIO

Foodle

VIDEOTORIUM
TUDOMÁNY EGYENES ADÁSBAN

DECIDE
Diagnostic Enhancement of Confidence by
an International Distributed Environment

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INDICATE

Science
Gateway

RICe
VI

EUMEDGrid
Support

FILESENDER

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CAFE EVOLUTION

2010
First federation in Latin America to join REFEDS

2012
It is the first eduGAIN partnership outside Europe

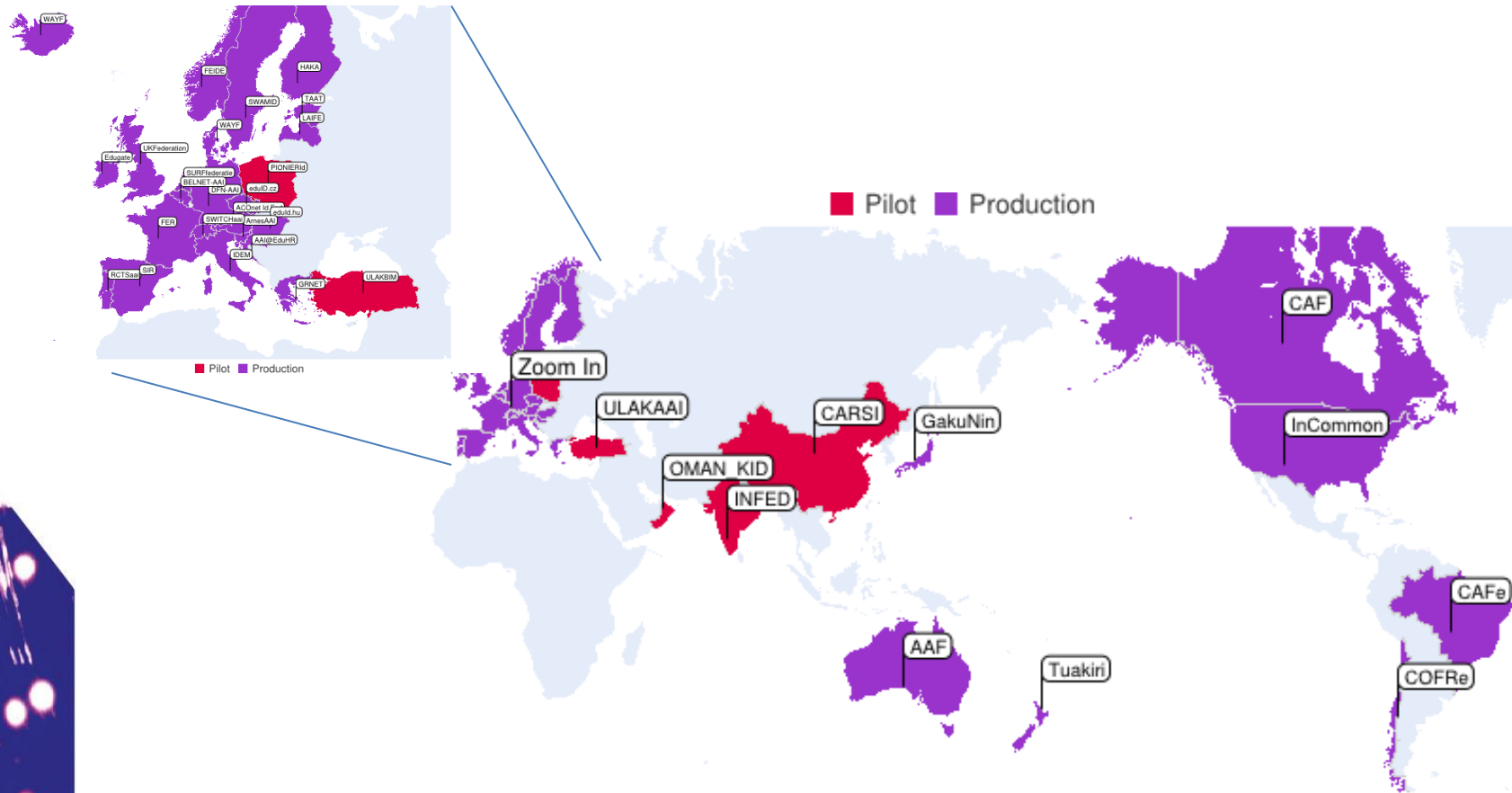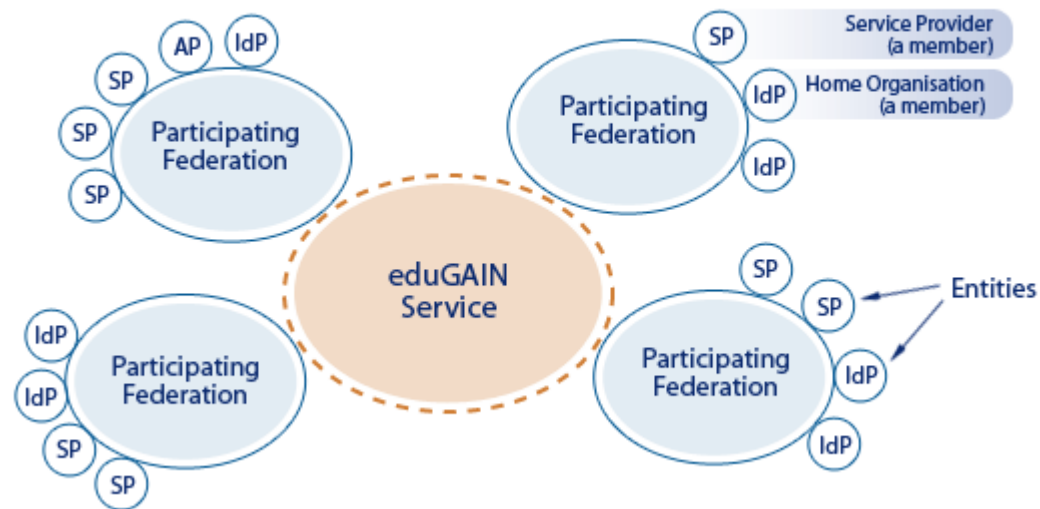# STRONG ALIANCE

PS:Until july, 2013

☺

eduGAIN

A short introduction

GÉANT

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HOW EDUGAIN WORKS?

eduGAIN enables different AAIs to interact securely. The eduGAIN technology involves a "Metadata Service", which regularly retrieves and aggregates information from participating federations about services and identity providers, and makes this information available.

eduGAIN coordinates necessary elements of the federations' technical infrastructure and provides a policy framework controlling the exchange of this information.

eduGAIN also liaises with other federation initiatives such as REFEDS.

Main benefits to use eduGAIN

- More services for your users – enables them to access services from different federations;

- Lower administration costs – thanks to easier technical integration;

- Saves time - no need to make bilateral agreements with other federations;

- Trustworthy - secure collaboration and exchange of information;

- One digital identity and password for all services connected through eduGAIN;

- eduGAIN is 'invisible' to you so you can access services without extra effort.

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How to join eduGAIN?

- ▸ Contact email
- ▸ Signing declaration
- ▸ Metatada source and signing certificate
- ▸ TSG delegate and deputy
- ▸ Federation page
- ▸ Policy
- ▸ Registration practice statement

http://www.edugain.org/joining_checklist.php#

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OTHER AAI PROJECT IN LATIN AMERICA

Europe Latin America
Collaborative e-Infrastructure
for Research Activities

ELCIRA aims "to promote the trustworthy exchange of information between research groups in Latin America and Europe by fostering the creation of federations for authentication, authorization and identity (AAI) mechanisms."

OTHER AAI PROJECT IN LATIN AMERICA

elcira
Europe Latin America
Collaborative e-Infrastructure
for Research Activities

- Creation of a virtual course to train NREN technical teams in order to replicate the action in their NRENs and with their customers;

- Action and Policy Coordination with other regional AAI organizations and federations;

- Deployment of showcase examples with two RedCLARA NRENs or their institutions.

- Implementation of AAI interoperability and interoperation with Latin American federations and its European counterparts.

ELCIRA FUNDED BY

ELCIRA PARTNERS

EDUROAM BIG BANG

Subject: [mobility] proposal for inter NREN roaming
From: Klaas Wierenga <Klaas.Wierenga@surfnet.nl>
Date: Thu, 30 May 2002 12:46:43 +0200
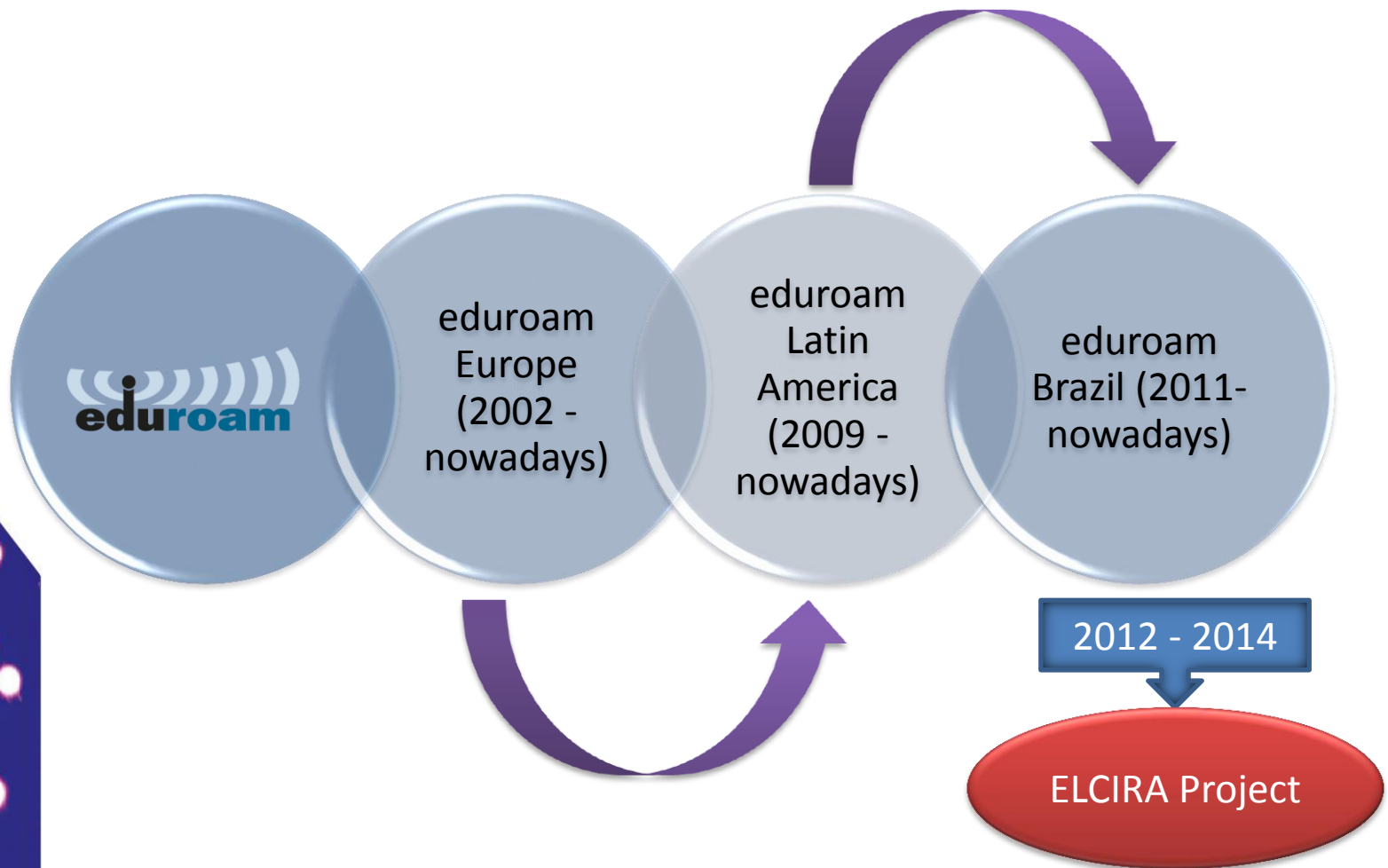**To:** mobility@terena.nl

Dear all,

As promised at the mobility workshop a proposal for an inter-NREN wireless LAN roaming test. Based on some investigation we have done in the Netherlands we propose to experiment with the 802.1x standard as that seems the most likely candidate for inter-NREN roaming since it gets a lot of industry attention and scales relatively easy.
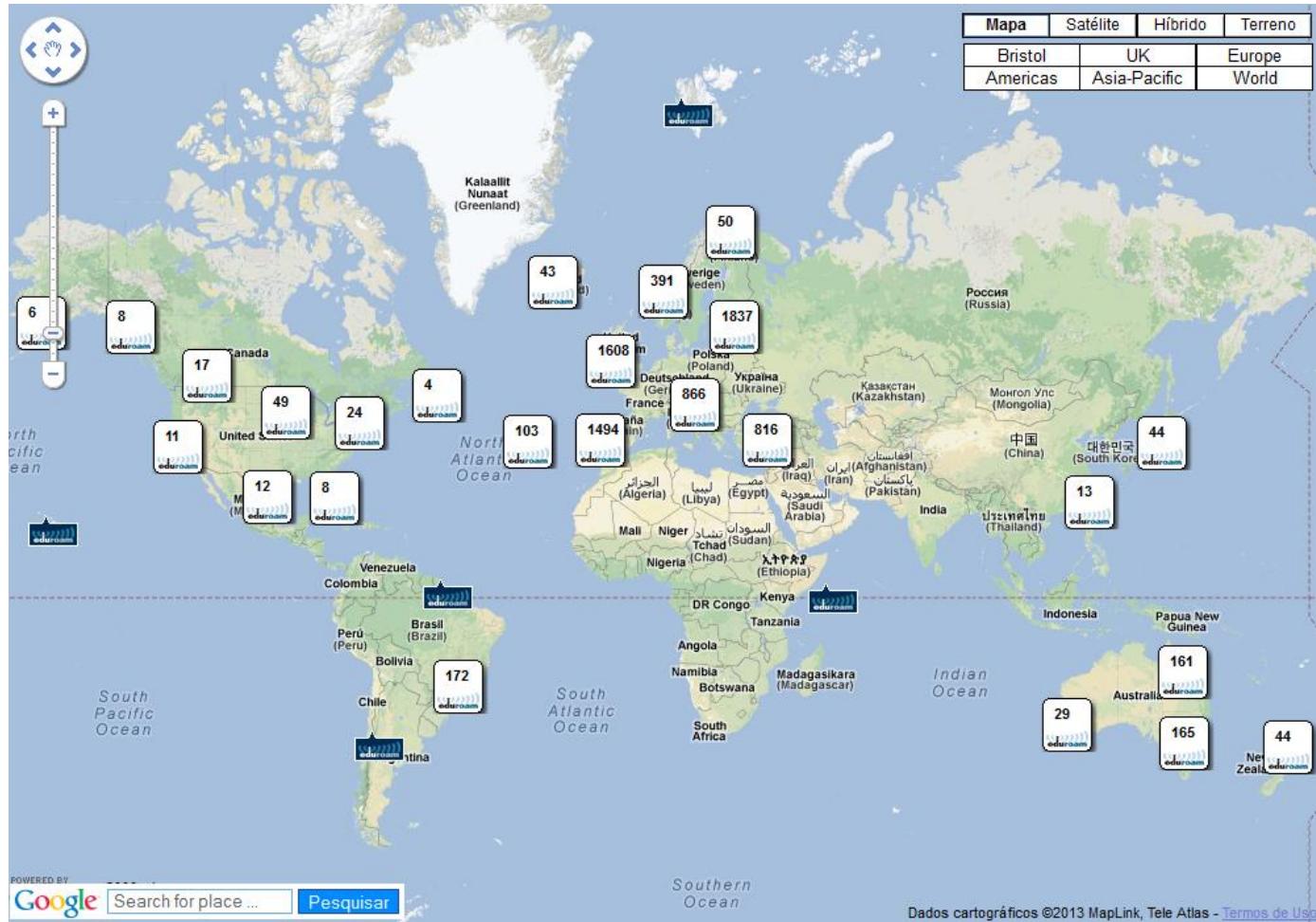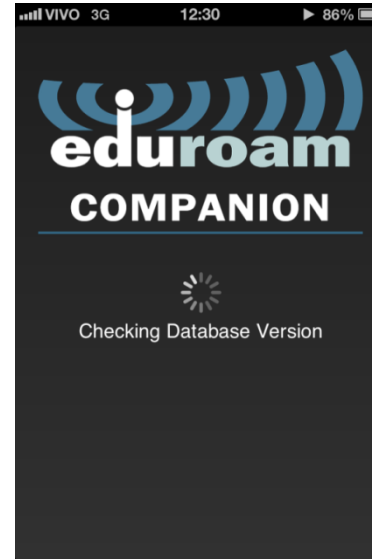I'm looking forward to hear your comments or better ideas.

Cheers,

Klaas

EDUROAM DEVELOPMENT IN BRAZIL

eduroam Europe (2002 - nowadays)

eduroam Latin America (2009 - nowadays)

eduroam Brazil (2011-nowadays)

2012 - 2014

ELCIRA Project

WHERE CAN I USE IT?

WHERE CAN I USE IT?

HOW IT WORKS?

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RadSec (TLS)

RADIUS Server
National PROXY

RadSec (TLS)

RADIUS Server

University A

RADIUS Server

Campus B

Campus A

LDAP Server

Roaming user (University A)
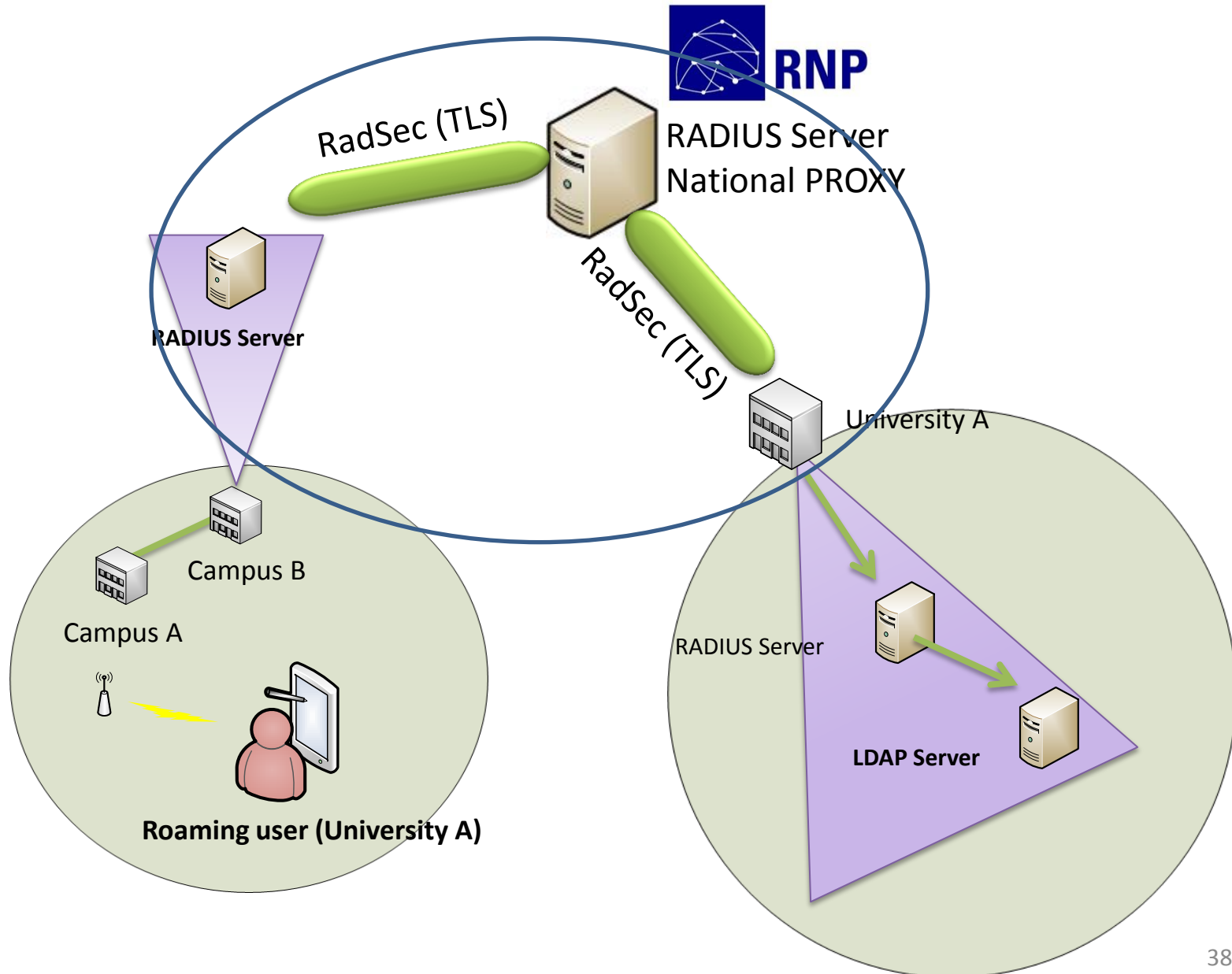
REQUIREMENTS

Hardware:
- Server (processor Intel Core i3, 4GB RAM e HD 500 GB);
- At least one Access point supporting the protocols IEEE 802.11i e IEEE 802.1X.

Server Softwares:
- Ubuntu LTS 10.04 (Recomended);
- FreeRADIUS 2.1.10;
- OpenLDAP 2.4.23;
- RadSec 1.3;
- OpenSSL 0.9.8.

OTHER EDUROAM PROJECT IN LATIN AMERICA

- Creation of a virtual course to train NREN technical teams in order to replicate the action in their NRENs and with their customers;

- Action and Policy Coordination with other regional eduroam organisations;

- Deployment of showcase examples with two RedCLARA NRENs or their institutions.

- Implementation of eduroam interoperability and interoperation with Latin American federations and their European counterparts.

EDUROAM CONFIGURATION ASSISTANT TOOL

While this is the final 1.0 release version of CAT software, please do not consider this **service** as production. We will be announcing one soon.

Welcome to eduroam CAT

eduroam Configuration Assistant Tool

View this page in Català Deutsch English(GB) Español Français Hrvatski Italiano Polski Slovenčina Slovenščina Srpski

Start page

This is a service under preparation, do not expect it to work

Welcome to eduroam CAT

eduroam Configuration Assistant Tool

View this page in Català Deutsch Ελληνικά English(GB) Español Français Galego Hrvatski Italiano Nederlands Polski Slovenščina Srpski Suomi Svenska   Start page

Selected institution: **RESTENA Foundation** [select another]

If you encounter problems, then you can obtain direct assistance from you home organisation at:
WWW: http://www.restena.lu/en/eduroam
email: helpdesk@restena.lu

Choose an installer to download

MS Windows 8	i
MS Windows 7	i
MS Windows Vista	i
MS Windows XP SP3	i
Apple Mac OS X Lion	i
Apple iOS mobile devices	i
Linux	i
Welcome Letter	i
Test	i

RESTENA

eduroam CAT - Release CAT-1.0-beta2 © 2011-12 DANTE Ltd. on behalf of the GN3 consortium

https://cat-test.eduroam.org/

DANTE   **RNP**

41

A WORK PROPOUSAL…

More information

- RNP – www.rnp.br

- CAFe – www.rnp.br/servicos/cafe

- eduroam – www.eduroam.org

- eduroam (Brazil) – www.rnp.br/servicos/eduroam

- eduroam CAT - https://cat-test.eduroam.org/

- eduGAIN – www.edugain.org

- REFEDS: www.refeds.org

- ELCIRA: elcira.redclara.net

Thank you!

Leandro Guimarães

leandro.guimaraes@rnp.br

@servicos_rnp

http://www.rnp.br/servicos

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