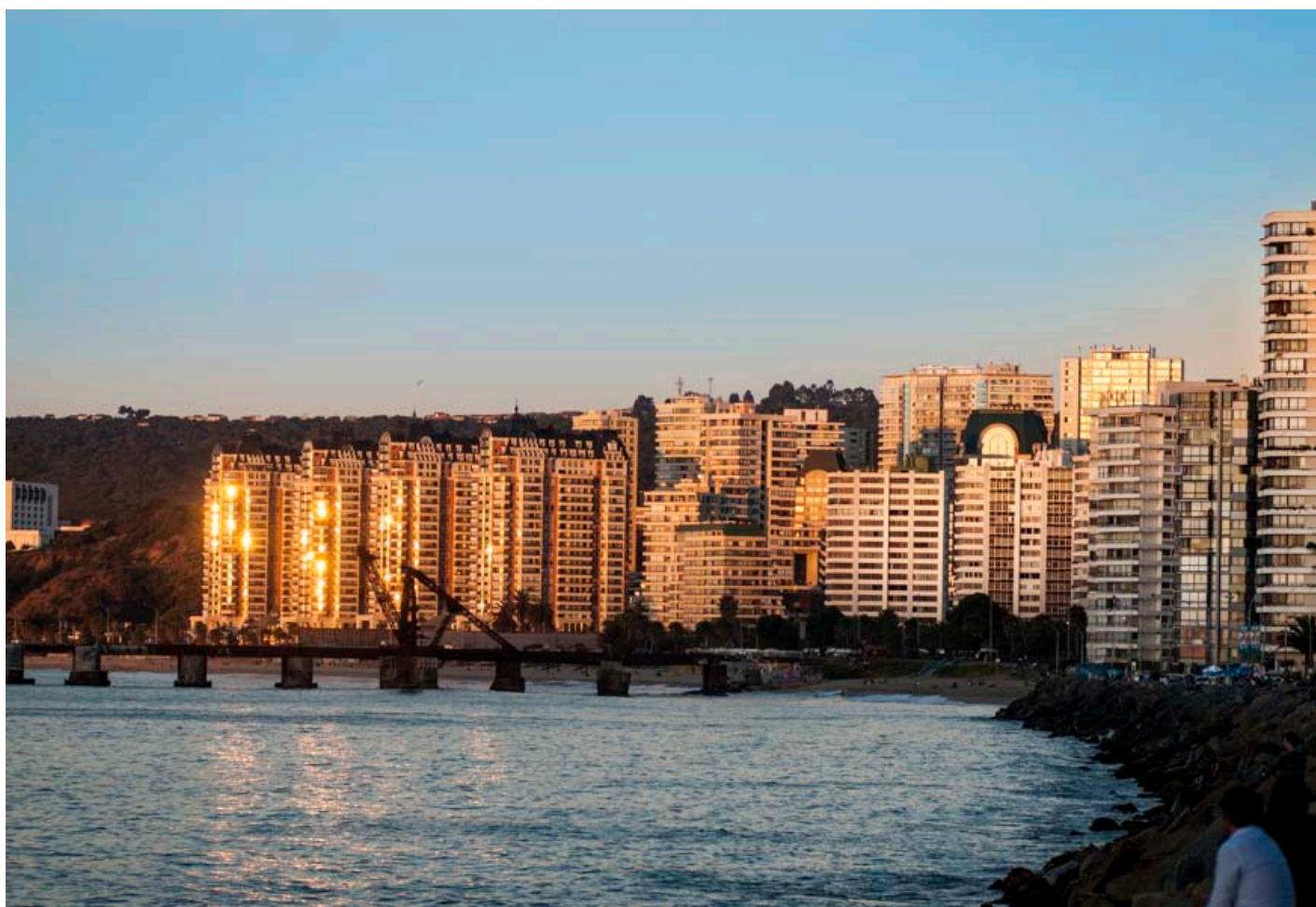


DECLARA

Bulletin

Year 10



Chile: Viña del Mar
will be the venue of
TICAL2015

Virtual Encounters
Cycle on Smart
Cities started its
activities

ELCIRA project
is successfully
concluded

n° **40**

December 2014



RedCLARA

A clear path for your data

We empower your research and developments

RedCLARA interconnects the national advanced networks in Latin America and connects them with all the networks in the world, giving Latin-American scientists, academics and researchers an infrastructure that allows them to effectively collaborate with the global scientific community.

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Florencio I. Utreras

Executive Director
RedCLARA

+ Red + Ciencia ● ● ● ●

In October 2014 we closed another stage in RedCLARA with the end of the ELCIRA project, which has sought to create conditions for further integration of services between our Latin American network and the one of Europe, favoring, on one hand, the mobility of academics and students by expanding the eduroam service and authentication and identification mechanisms (AAI) integrated with the Global eduGAIN service and secondly, encouraging the construction of research communities that integrate academics from both regions and the applications that help the work of these groups: videoconferencing (room) and desktop conferencing (web conferences), transferring large files services, wikis, projects database, etc.

ELCIRA, which was approved with the highest grades, involved the RedCLARA NREN partners, its technical teams, and the networks of Europe, GARR and RedIRIS, together with its regional organizations DANTE and TERENA (now merged into GÉANT Association). This success allowed that 20 organizations worldwide, led by CLARA, presented to the H2020 program a project to expand these ideas of integration of platforms of services and research communities through a comprehensive project. The result of this proposal will be known in the upcoming days, but beyond the success or failure of this new specific initiative, the key is that the concepts of the ELCIRA project are gaining strength among the NRENs in the whole world, with

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whom we aim that the services that we provide as Advanced Networks around the world will be clearly focused in academics and researchers and that present a high level of integration to favor the overall work of the research communities.

RedCLARA will continue this line of work that has clearly been demanded by its partners in the Strategic Plan 2014-2018, approved in May 2014 within the context of the CLARA Assembly held in Cancun, Mexico. In the Plan, which defined the mission of RedCLARA as "Strengthening the development of science, education, culture and innovation in Latin America through the innovative use of advanced networks", it was made clear that our basic strength is our telecommunications network and, therefore, it is crucial to further its development to turn it into an academic network of world class, as deserved by academics and students who use it every day. For this it is working hard on a big project aiming to complete the fiber infrastructure that connects our partner networks, building a highly scalable network, comparable to the European or North American networks capacity, and acquire a significant capacity in the new submarine cable that will directly connect Europe to South America in order to allow that our international connections have the same characteristics as those that unite the most technologically advanced countries. This major project is in the phase of negotiation

and is expected to become hired in 2015 and finish their implementation by the end of 2016 or early 2017.

The year 2014 saw in Cancun (Mexico) the consolidation of TICAL, the annual meeting of the Directors of Information Technology and Communication of Universities and Institutions of Higher Education of the Region, which with over 430 attendees has been strengthened as the meeting point of ICT to serve academia and research in Latin America, we are confident that 2015 will continue this success in its edition of Viña del Mar (Chile).

RedCLARA continues working for the NRENs within the region and for the academic and student communities that they serve. Let 2015 be full of success for all, working together we are building the essential infrastructure for education, culture, science and research in Latin America.

Editorial



RedCLARA's 2014-2018 Strategic Plan: A clearly defined path

By the end of 2012 RedCLARA and its members started a profound and intense work to structure the course of action for the period 2014-2018, and the task reached port on the coast of Cancun, Mexico, during the 28th and 29th of May, in the framework of the General Assembly of Members.

María José López Pourailly

The first milestone in the consolidation of RedCLARA's Strategic Plan 2014-2018 is the new definition of its mission: "Strengthening the development of science, education, culture and innovation in Latin America through the innovative use of advanced networks".

And the vision? It was also signed in Cancun, and that is that RedCLARA "in year 2017 will be recognized as a key player in strengthening science and technology in Latin America, making that the 60% of the end users of the NRENS use federated applications and collaboration platforms through RedCLARA and that the 80% of the Latin American countries become active partners".

Strategic Objectives

The goals to pursue in these four years by RedCLARA were grouped into four perspectives, within which objectives are broken down and therefore, tasks, where the network that is connecting the national academic networks in Central and South America to enhance the development of education, science and research, is already focused, demonstrating its deep commitment to its mission and vision.

Within the Learning and Growth Perspective, professional skills, teamwork habilities, collaboration, innovation and motivational skills will be developed and strengthened both inside the NREN teams, as in the central work team of RedCLARA and between each other. Looking after becoming a cohesive and innovative organization, RedCLARA will be strengthen, as a collaborative organization that promotes the participation of all its members, in order to generate a cohesive network of institutions that develop joint activities, creating value to all partners through innovation products and services that are useful to partners, members and end users. Synergy between the NRENS technical groups, the RedCLARA team and the various instances in which the technical and academic partner institutions are organized, will be seek, with the view of establishing relations that will contribute to consolidate a technological leadership within the region in matters of advanced networks and their applications in science, education, technology and innovation.

The Process Perspective contains five lines that will be highly challenging, let's see them. Development of innovative solutions: Encourage ongoing innovation in the technology used by

RedCLARA and in the products and services that it offers, in order to ensure that they remain at the technological frontier. Strengthen RedCLARA's management:

Consolidate RedCLARA's management and its mechanisms of participation, transparency and management control. Strengthening the promotion and sale of products and services: Develop and strengthen mechanisms for the promotion, sale, delivery, support and evolution of the entire value chain of products and services built. Network's availability and quality: Ensure that the Advanced Regional Network and its intercontinental connections across the product range that has been defined, keeps the highest quality and availability standards. Strengthen strategies and mechanisms for internal and external communication: To ensure a steady flow of information to enable its partners and influential environment to know and understand the activities that are taking place within the organization, and to participate more actively in the development of their activities, as appropriate.

The third Perspective is the Financial, and within political support and funding from agencies and governments will be seek, as well as to stabilize and increase revenues from current partners and the connection to the business world.

The Customer Perspective is the one that close the structure of this Plan. Here the focus of RedCLARA as organization centered on serving

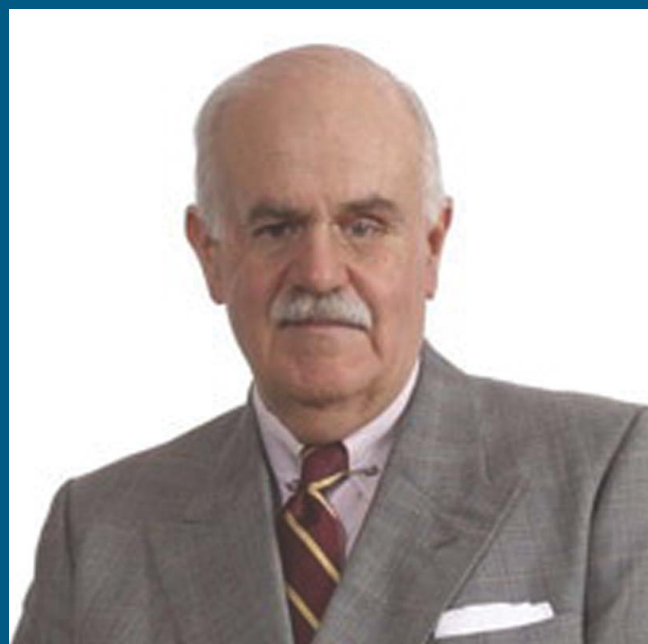
the NRENS and, along with them, on serving the academia, science, education and innovation worlds in Latin America, will be strengthened; it is clearly seeks that RedCLARA focuses on the integration of specialized activities for the academic world in Latin America. The delivery of federated services of added value, inclusive and innovative profile for the scientific, technological and innovation communities is another goal that will be seek through the development of these services. Finally, it will be seek to ensure that the telecommunications network provided by RedCLARA to their full partners be an Advanced Academic Network in the sense of providing data transport services of the most advanced technology, comparable to their peers around the world, whose bandwidth is such that it does not offer practical limitations to researchers, teachers and academics in general, to develop their research, teaching and innovation.

The route is already mapped, and RedCLARA going for it!

Carlos Casasús

is the President of the New Board of Directors of RedCLARA

María José López Pourailly



On June 11th, in the context of the Board meeting carried out on-line, the Latin American Cooperation of Advanced Networks (RedCLARA) renewed its Board of Directors, the maximum organism in charge of the direction of the institution that since that date is integrated by:

President
Carlos Casasús
CUDI (Mexico)



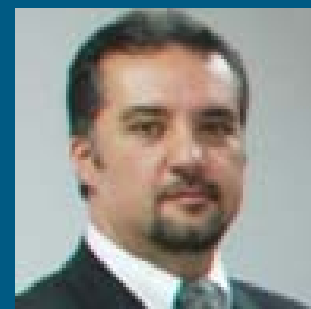
Vicepresident
Lucas Giraldo
RENATA (Colombia)



Secretary
Ida Holz
RAU (Uruguay)



Treasurer
Eduardo Grizendi
RNP (Brazil)



Counselor
Juan Pablo Carvallo
CEDIA (Ecuador)

RedCLARA presents the main results of the "Study on Governance Maturity of ICTs in the Latin American universities"

The document, which includes the responses about the governance processes of the 204 institutions from 13 countries in the region that provided information for the study, it's ready to be downloaded by all the participant entities.

Tania Altamirano

In order to identify governance practices related to Information Technologies (IT) deployed at universities in Latin America, the Studies Management of RedCLARA launched a call between the members of the TICAL community to respond to the questionnaire of the "Study on Governance Maturity of ICTs in the Latin American universities" held under the COBIT® methodology, using the scale of checkup of maturity model of process capability (ITGI, 2007).

The participation of 204 institutions from 13 countries in the region in the development of the study represents a first achievement of the TICAL community because to date there were no systematized information about what these high education institutions were carrying out on Governance of ICT, nor regarding the level of maturity of their processes in the different domains identified in COBIT.

The study was conducted between April 28 and May 15, 2014 by Angela Brodbeck and Jussara Musse, researchers from the Universidad Federal de Rio Grande do Sul (UFRGS - Brazil), who have an extensive experience in the field of governance in academic activities, offering advisories and in the active participation in international discussion groups in this area.

Some conclusions

According to the presentation made during the thematic meeting devoted to the study, the results have provided a first insight on the ICT Governance in the universities of the region, which will allow to consider joint actions for the transfer of knowledge and experiences among the members of the community.

Regarding the COBIT evaluation tool, although it is standardized, the reflections on its use made it clear that it is necessary to improve the questions incorporated to characterize universities, in order to structure and define more accurately the information related to size, legal status and the level of technological penetration of universities, among others elements. Therefore, during the thematic meeting held, a working group was formed with ten members of the TICAL community who will work in the improvement of the instrument; the changes they propose will be applied in the second version of the study.

Another important contribution of this research lies in the application of a systematic method generated to verify the reality of the organizations in order to define best practices in IT management in the universities, through an IT governance framework (COBIT® in this case). Understanding the results and its implications will help the participating institutions to review their governance processes versus the average results of the study and to analyze what can be improved in their institutions.

The full document is available for all the institutions that participated in the study, by request to Marcela Larenas, RedCLARA Studies Manager, to the account: tical@redclara.net



Chile

Viña del Mar will be the venue of TICAL2015

Also known as the "Garden City" and located just over an hour from Santiago, the city of Viña del Mar, in Chile, will held between July 6th and 8th, 2015, the fifth edition of TICAL Conference, organized by RedCLARA and the national Research and Education network of Chile, REUNA, in partnership with Edutic. The call for papers around the seven thematic axis defined by the Programme Committee of the event will be oponed until April 15, 2015 at 24:00 GMT; as an incentive, one author of each paper selected for the conference will receive airfare to attend TICAL.

María José López Pourailly



Aiming to share and support the use of ICT in the universities of the continent, enhancing its teaching, research, extension and management, the Network of Directors of Information and Communication Technologies of Latin American Universities (TICAL) built in 2011 a space that is already consolidated and that is seeking the continuous improvement of the technology in the institutions of the region.

To the university community with responsibilities for ICT management in the region, TICAL Conference is the most important space to be nourished with the experiences, initiatives and knowledge shared by the universities themselves, creating significant and novel solutions in higher education institutions.

Venue

The fifth edition of TICAL Hill be carried out in Viña del Mar, in the central cost of Chile, at the Enjoy Hotel and Conventions Centre, from July 6 to 8, 2015.

According to Paola Arellano, executive director of REUNA, the chilean network sought to bring the Conference to its country considering that "TICAL is a great opportunity for the Chilean higher education communities to discuss with their fellows in Latin America about the challenges faced in their management as well as share experiences about ICT solutions."

About the choice of Viña del Mar to host the event, Arellano says the city is the perfect place to hold an international meeting like TICAL. "Viña del Mar offers us an excellent hotel chain, as well as proximity to Santiago," she says, also highlighting other attractions of the city as its climate, tourist attractions, beautiful beaches and green areas, as well as its excellent cuisine.

Call for papers

The fifth edition of TICAL, which will be held from July 6th to 8th of 2015, is seeking papers on the following themes.

ICT Solutions for Education: Learning Tools Based on Simulation, Collaborative environments, Virtual Labs, Management

and Distribution of software specialized in supporting teaching, ICT Solutions for Implementing Mooc (Massive Open Online Courses), Technology in the Classroom, Integral Solutions of Video, the Impact of Mobility on Teaching, Institutional Social Networks.

ICT solutions to support Research: Scientific Visualization, Simulation Tools, Collaborative Environments of Research Support, Management and Distribution of Specialized Software, Development of Solution in HPC (High Performance Computing), Knowledge Management (repositories, digital magazines), Management of Science Data, Massive Data Storage Services, Cloud Services to Research Support, etc.

ICT Solutions for Management: Collaboration environments that enhance the effectiveness and efficiency of the processes, Solutions that enable the integration of processes, Systems for the analysis of University Operational Management* (Business Intelligence, Analytcs, big data), Support to the Processes of Accreditation, Cloud-based Management Models.

ICT Solutions for Extension and Linking with the Environment: Continuous improvement projects, Technological University solutions to facilitate insertion of communities with special needs, ICT services extended beyond the campus, Participation of universities in smart cities projects, Environmental Sustainability, Energeticy, etc. Solutions for Events Management, Social Responsibility, Management of technological waste, the Role of IT in measuring University Trail Carbon.

ICT Governance and Management: Implementation of best management practices in ICT (Organizational Structure and HR Politics, Recruiting and Retaining Talent in Services, Calculation and Cost Services Management, Process Management, Monitoring and Metrics), Implementation of successful schemes of Project Management, Innovation Management, ICT Knowledge Management, Management of Data Centers, Definition and Implementation of ICT Strategy, Experiences that helped to improve the maturity of ICT Governance.

* Applying the concept of "business" is not adequate to the most of the higher education institutions. However it is employed here because through it we popularly know this kind of solutions. In this context, the term "business" must be assimilated to the main goals of the universities, and not to a profit-centered concept.



Infrastructure: Engineering and Network Management to support BYOD **, Impact of Mobility on Infrastructure and Services, Wireless Networks (internal and external WiFi Solutions), Infrastructure of PKI, Identity Solutions (single sign-on and mobility), Storage Solutions, Data Centers, Public or integrated to Infrastructure Clouds**, Innovative VOIP Solutions, IPv6 Implementation, High Performance Computing (HPC), Ecological Sustainability of IT (Green IT), Outsourcing Services, Infrastructure for Smart Campus.

Information Security: Solutions for Access Management, Implementation of International Standards, Implementation of Best Practices, Security Management and Data Management, Legal Aspects in ICT Delivery Service of the University and the Protection of Privacy, Service Availability and Providers Security Management, Cloud Services Security, Important aspects to consider for the Merge of Social Networks; Planning and Safety Management, Safeguarding Digitized Information Intellectual Property.

Important:

It is expected that the papers presented in each thematic area are centered on ICT and on how its use or incorporation helps to solve the problems that the region's universities are facing. In the selection of the papers, some concepts are particularly privileged. They are:

- Experiences: the submitted works must have a strong focus on experiences, since TICAL is a Conference for sharing this kind of matters. There is no interest in scientific or merely academic papers.
- Projects or services: TICAL seeks papers that describe executed projects or implemented services, not just ideas or proposals that have not yet left the drawing board.
- Focus on ICT: TICAL gathers those responsible for ICT in Latin American universities. Hence, the Conference is

** The concepts "cloud", mobile devices and "BYOD", and mobility, are related to infrastructure, but as far as they relate to others, is with these themes where they should be included.

looking for papers with focus in this area.

- Impact on university strategy: It's considered a very significant value the description, in case that is its approach, of the impact of a technology solution on the strategy of the university.
- Classification by thematic area: Authors should indicate the main axis on which are presenting their work. Is possible to choose a secondary axis in the case that the job includes more than one.

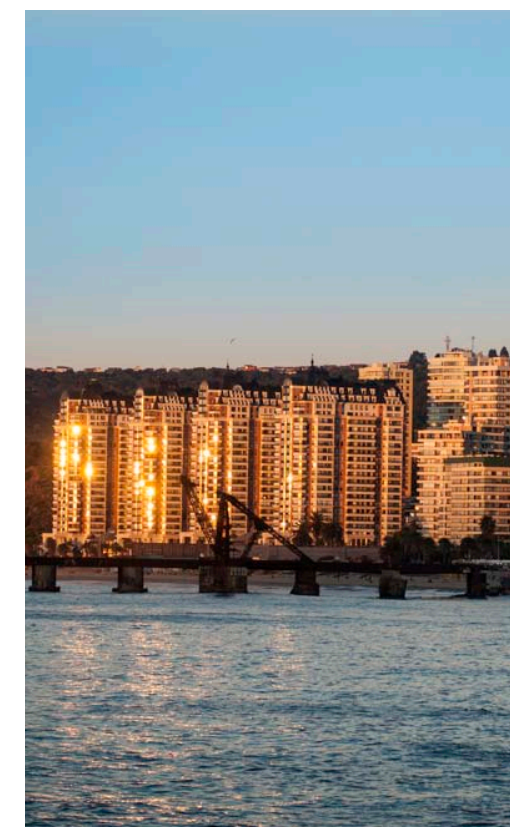
The closing date of the call is dated for April 15th of 2015, at 24:00 GMT, and the papers must be submitted - in strict alignment to the format established by the Guide for Authors TICAL2015 (download at: <http://tical2015.redclara.net/index.php/en/2014-11-07-17-48-02/ejes-tematicos-tical2015/guia-para-autores>) - to the email tical@redclara.net.

Incentive

For each one of the papers selected by the Programme Committee for its presentation at TICAL2015, and to ensure that presentation, the organizers will bear the cost of airline tickets (round trip to Chile) to one of the authors of each paper.

Important dates

- 2015 Call opening
November 19th of 2014
- Call for Papers Deadline
April 15th of 2015
- Consultations
Until April 6th of 2015, through the e-mail tical@redclara.net
- Announcement of the selected papers
May 18th of 2015
- Conference
July 6th to 8th of 2015



Learn everything you need about TICAL2015:

Website TICAL2015
<http://tical2015.redclara.net/>

 Facebook TICAL2015
<https://www.facebook.com/pages/TICAL/1569394983295180>

 Twitter TICAL2015
<https://twitter.com/TICAL2015>

Virtual Encounters Cycle on Smart Cities started its activities

Dozens of participants from the national networks connected to RedCLARA partner institutions were gathered last November 27th to attend the first session of the Virtual Encounters Cycle on Smart Cities. The initiative of RedCLARA in partnership with Telefónica was held through videoconference and included the participation of 16 videoconference rooms and 34 streaming connections.

Luiz Alberto Rasseli

The Virtual Encounters Cycle aims to open a debate in the academic community around the topic of the Smart Cities, as well as to explore initiatives from which collaborative projects could be developed. Therefore, the first meeting also included the participation of the experts Mario Campolargo, director of "Net Futures" from DG Connect of the European Commission; Javier de la Plaza, responsible of Public Administration and Multilatinas Customers in Latin America, from Telefónica;

and Luiz Muñoz, professor of the University of Cantabria, Spain, who helped to qualify the discussions on the subject.

The second meeting – of the three planned for the cycle - is scheduled for January 15th of 2015 and will focus on the theme "The Academic Contribution for the Holistic Vision of the Cities". To subscribe, the interested must access the Virtual Encounters Cycle website at www.redclara.net/indico/evento/ciudades_inteligentes.



ELCIRA project is successfully concluded

Two years after its inception, on June 1st of 2012, the Europe Latin America Collaborative e-Infrastructure for Research Activities project came to an end, and its results includes a powerful collaboration platform, a bigger eduroam coverage in Latin America, new identity federations and the development of a marking system that, thanks to the work with the eduCONF project, from GÉANT, facilitates the communication between researchers from both continents.

Tania Altamirano



One of the principal achievements of ELCIRA is the launch of eduroam in eight Latin American countries: Chile, Peru, Colombia, Mexico, Argentina, Costa Rica and Ecuador, and the consolidation of the service in Brazil (also launched during the project lifetime), where is located the first eduroam-city of the region, Porto Alegre.

Concerning to the identity federations, the initial goal of ELCIRA was to support the process in two Latin American countries. The goal was reached and surpassed with a total of four federations in operation at the end of the project: Chile (COFRE), Ecuador (MiNGA), Argentina (MATE) and Colombia (Colfire); the federations of Chile and Brazil (CAFe), are now integrated into the European service, eduGAIN.



Concerning to the High Quality Videoconference System, ELCIRA reached the implementation of a marking system (Gatekeeper) for RedCLARA, Costa Rica and Colombia, and the integration of these two countries, along with Brazil and Mexico, to the Gatekeeper of RedCLARA. By means of the integration to the global marking network (Gatekeepers) of eduCONF, the audiovisual communication between the researchers of Europe and Latin America was facilitated.



For the work in community, ELCIRA launched Colaboratorio V1.0, a federated virtual platform that offers tools and services provided by Latin America and Europe. The platform allows to:

- Take part of the discussions and events of the communities that are part of RedCLARA and to create and participate in web conferences (VC Espresso)
- Search and find documents of RedCLARA and the communities that comprise it (Document@s)
- Postulate to funding opportunities for projects and reach out partners and collaborators (Looking for Partners and Funds Alert).
- Transferring large files (eNVIO), service based on FileSender, system developed in Europe and provided by the Italian academic network, GARR.

To facilitate the use of these services, tutorial videos and informative sheets for each one were developed. All of them are available in Spanish and English on the project website (www.elcira.eu/tutorials.html).

Moreover, in ELCIRA's website the researchers and academics have access to two outstanding tools: an interactive map with information related to initiatives developed in the FP7 and ALFA programmes, with participants from Europe and Latin America, and a database about Great Resources and Remote Instruments that identifies tools, resources and the databases that are or could be accessible through the Internet or through the advanced research and education networks, and that could be shared with other researchers or research groups.

These great achievements were accompanied by outreach activities in important international conferences in Europe and Latin America, as the Terena Networking Conference, TNC, and the Conference of Directors of Information Technologies, TICAL.

About ELCIRA

The project's main objective was to coordinate a series of collaboration tools and services developed in Europe and Latin America to provide a framework of interoperability that facilitates the work of the research groups of both regions.

ELCIRA counted on the participation of RedCLARA (Uruguay), DANTE (UK), GARR (Italy), RNP (Brazil), RENATA (Colombia), TERENA (Netherlands) and RedIRIS (Spain), and had a budget of one million euros, funded by the European Commission.



To learn more about the project, visit: www.elcira.eu



Attention National Networks:

RedCLARA invites to participate in the plan for the VC room certification

With this initiative the Videoconferencing Network Operations Center (VNOC) of RedCLARA, seeks to ensure the quality of the videoconference services through an evaluation of parameters related to the image and sound, and to provide users with information related to the technical contact, the capacity and hours of operation of the rooms.

Tania Altamirano

RedCLARA invites all national networks and their member institutions to participate in the "Plan for the VC room certification" carried out by the Videoconferencing Network Operations Center (VNOC) to validate the characteristics of their rooms and to get information from other institutions in Latin America.

Certification and previous testing can avoid problems of the image (pixilation, no picture), sound (distortion, noise, interference, feedback), among others. Also, the registration in RedCLARA will allow the institutions members of the NRENs and their end users to choose a room according to their needs and requirements due to the data collected will be published in the SIVIC system of RedCLARA and will be available for consultation.

With this initiative the institutions will register and validate information related to technical support contacts, number of positions, work schedules, terminal type (H.323, telepresence), quality of audio and video supported, among other parameters.

The certification program includes the following steps:



Once the room is registered in the directory and the web form of self-certification is complete, the session of verification will be coordinate with the VNOC for a session of joint tests to evaluate the registered parameters are to evaluated and to confirm the proper connection on audio, video, streaming content, lighting, acoustics, among others.

Would you like to have more information? Please write to the email vnoc@redclara.net.

Línks

SIVIC System here
<http://sivic.redclara.net/>

Online form for registration in the in the certification process here:
<http://encuestas.redclara.net/index.php?sid=98648&lang=es>





The World Cup in High Resolution

For the ones who are crazy about football, the World Cup in Brazil, held between June and July 2014, was a real feast. Modern stadiums, good games and the presence of the best players in the world gave to the tournament, previously surrounded by suspicion because of the problems in its organization, the nickname of "the Cup of the Cups". But it was not everything. Out of the lines, in the field of the technologies and advanced networks, the World Cup was amazing too.

Luiz Alberto Rasseli

While the Brazuca was rolling in the yellow-green lawns, the research and education networks in Latin America - represented by the Red Nacional de Ensino e Pesquisa (RNP) of Brazil, and RedCLARA - played an important game helping the Japanese television network NHK to broadcast the FIFA World Cup in 8k resolution (7,680 x 4,320 pixels) directly to Japan. It was the first time that a 8k transmission, resolution 16 times sharper than Full HD, was held live in

Latin America, and the Brazilian advanced network was the responsible for enabling the transfer of data across its network and other academic networks in Latin America, US and Japan.

Altogether, nine games were selected to be live broadcasted. The first was the duel between Japan and Ivory Coast in Recife, on June 14th, and the last was the great final of the tournament, played in Rio de Janeiro



Alex Moura

between Germany and Argentina, on July 13th. The matches were broadcasted in seven different locations: four in Japan, in the cities of Tokyo, Yokohama, Osaka and Tokushima, and three in Rio de Janeiro, located at the Sofitel (main hotel of FIFA), the auditorium of the Brazilian Center of Physical Research (CBPF) and the FIFA's International Broadcast Centre (IBC), which was set in the center of conventions Riocentro. From that location the 8K signal was transmitted to

the Point of Presence (PoP) of RNP in Rio, using the local metropolitan network, and from there, to Japan through five international routes configured by the network.

In the CBPF, an audience of students, researchers, teachers, journalists, representatives of industry and authorities had a true immersion experience. The auditorium of the Center was equipped with a giant screen of 275 inches and 22.2 audio channels. All to enhance the transmission in 8K. "The feeling is of being in the stadium," says Alex Moura, Research and Development Manager of RNP. "And this happened mainly due to the high clarity and realism of the images and sound because of the speakers installed around the auditorium," he adds.

But anyone who thinks that the work was simple is wrong. According to the manager, the challenges were many. "The development of the project was really arduous, especially because of the need to coordinate with many different teams and for the technical work of networks engineering", he explains. The huge gap between Brazil and Japan proved a major obstacle to the flow of digital images, covering multiple areas that are far away across the networks. The current state of digital

television processes prevent the 8K signal to be spread over long distances, and that's why the project needed the technological support of RNP, NTT Innovation Labs (Nippon Telegraph and Telephone Company), and other research networks around the world.

Led by NHK, that since London Olympics in 2012 is experiencing and improving its 8K technology known as "Super High Definition", the experiment brought even more shine to the Brazilian World Cup. The idea is that the collaboration between research networks in Brazil and Japan continues. And the next stop must be the Olympics of Rio de Janeiro in 2016, possibility that causes expectation at RNP. "The way is open in that direction. We have nothing confirmed yet, but we hope to engage the network in some similar project during the Games", concluded Moura.

The 8K transmission in numbers

- CBPF Auditorium was equipped with a 275 inches screen (6,30m x 3,63m)
- 22.2 audio channels were installed too, with 33 speakers
- 9 World Cup matches were broadcasted live to Japan in 8K
- 2 live games were displayed in unique sessions for RNP
- 4 different routes have been configured for the exchange between Brazil and Japan
- 24 Gb/s is the bandwidth required to transmit live in Brazil, uncompressed
- After the compression, the bandwidth drops to 300 Mb/s
- 8K definition is 16 times greater than Full HD or 4 times greater than 4K (7,680 X 4,320 pixels)



DANTE and TERENA join forces to become the GÉANT Association

In response to the community of Europe's national research and education networking organisations' (NRENs') wishes, the GÉANT Association has been formed by re-organising TERENA and DANTE under a unified governance structure. The membership of TERENA and the shareholders of DANTE voted to proceed during meetings held in Berlin on 7 October. This restructuring marks a new phase in almost thirty years of collaborative research and education networking in Europe.

TERENA News

Pierre Bruyère, Director of Belnet, the Belgian national research and education networking organisation (NREN), was appointed as Chair of the interim board of the GÉANT Association following three years as president of TERENA. He says: "The GÉANT Association is the leading collaboration on network and related infrastructure and services for the benefit of research and education, contributing to Europe's economic growth and competitiveness."

The new Interim CEO of the GÉANT Association has been named as Bob Day, Executive Director of Janet, the United Kingdom's NREN. The association's board asked him, as he steps down as chair of DANTE, to take on this new role during the period of transition and integration. He says: "The restructuring will create a vehicle to coordinate the community's approach to the European Commission's Horizon2020 Programme".

Valentino Cavalli, long-term Acting Secretary General of TERENA agrees: "The main benefits will be simplified governance, more efficient management, more flexible use of resources and a more inclusive membership for the association."

There will be no service disruption while the process of integration is completed; in fact this will have a positive impact on how we serve our members and in our relationships with partners and the user community," says Niels Hersoug and Matthew Scott, the joint General Managers of DANTE. "Indeed we see this as strengthening the European research and education networking community as a whole."

Why have DANTE and TERENA joined forces?

The decision to restructure came from the community of European NRENs, which both DANTE and TERENA serve. In October 2012 the community agreed it needed a strategy in order to achieve its part in the European Commission's vision for the future of research and innovation, 'Horizon2020'. This agreement followed the presentation of a report by the Reykjavik Group, which had been formed in May 2012 to prepare a response to recommendations published in 2011 in the report 'Knowledge without Borders' - which was produced by the GÉANT Expert Group set up by the European Commission.

Under the present Horizon2020 call, a number of proposals have been submitted by the GÉANT Association in collaboration with other European e-infrastructure providers.



Past news about the restructuring process is available via the TERENA news item, 'TERENA General Assembly hears satisfaction results and adopts new statutes'.

Just the beginning...

A first website for the GÉANT Association is now available, which includes FAQs and a simple overview of the restructuring, membership, activities and governance of the association.

While a longer term web presence is being developed, your patience and understanding are requested. In the meantime, please refer to the TERENA, DANTE, TNC and GÉANT Project websites for more detailed information about all services, network, news, events and other activities.

Further information:

GÉANT Association
<http://www.geant.org/>

GÉANT Project
<http://www.geant.net/>

DANTE
<http://www.dante.net/>

TERENA
<http://www.terena.org/>

TNC15
<https://tnc15.terena.org/>

In six years, "RENATA en Vivo" surpasses 17,000 hours of transmission of academic activities

131 institutions of Colombia, among Higher Education Institutions (HEIs), members of the government and health and research centers, broadcasted more than 4,400 events through "RENATA en Vivo", the on line transmission service for the dissemination of different academic, scientific, educational and technological events of the institutions connected to RENATA, the Colombian academic network.

Comunicaciones RENATA

"Between 2008 and 2014 the 'RENATA en Vivo' broadcasts increased on average from 44 to 1,300 per year. As far as we can ascertain, RENATA is the NREN - National Research and Education Network - with the further development in this field throughout the world. In its six years of service, 'RENATA en Vivo' offered to the National System of Science, Technology and Innovation (SNCTI) of the country and to the Latin American academic community, more than 21,700 hours of scientific, educational and technological events of open access", explained Lucas Giraldo Ríos, Executive Director of RENATA.

In Giraldo's opinion, "the growth in the number of transmissions is due, largely, to the fact that the Colombian academic community has understood the benefits that come from the visibility received through 'RENATA en Vivo'. For the connected institutions is a priority to overcome the geographic barriers to make known their academic and scientific activities."

"Through the technical and communications management of RENATA, we made the necessary implementations in order to allow the transmissions made by the advanced technology network to be seen with the best quality for any Internet user, on any type of device connected to the public Internet. This is extremely attractive to the members of SNCTI, because through 'RENATA en Vivo' their events gain more visibility", he said.

According to Camilo Jaimes Ocaziónez, RENATA's Communications Manager, "the different actors of the academic community of Colombia - teachers, researchers, directors - are seizing up the services delivered by RENATA because they understood that the network is an important setting for the socialization of its missional work. In 'RENATA en Vivo', our institutions have transmitted the graduation of its undergraduate and postgraduate students, as well as, in the case of our members of the government, the presentation of policies and strategies of national impact."

"For example, Diego Molano Vega, Minister of ICT, presented the 'Plan Vive Digital 2' (Live Digital 2) to the academic community of the country through the transmission of 'RENATA en Vivo' from Popayan. The transmission was attended by more than 3000 members of SNCTI of Colombia", said Jaimes Ocaziónez.

'RENATA en Vivo' is positioning itself as a great showcase for research, innovation, education, culture, development and technology in Colombia and its events has, on average, 300 participants per transmission.

"Now, our challenge is to get that the institutions connected to RENATA triple the number of events that are broadcasted. Our goal is to help the institutions to optimize their efforts, supporting the dissemination and the technical launch of its transmissions so that the number of Internet users connected continues to grow and the quality in the production of transmissions improves. We know that the quality of a transmission depends on the production carried out by the institution. We are delighted because the institutions are broadcasting more and more, and with higher quality", he said.

According to Javier Lizarazo Rueda, RENATA's Technology Manager, "the following technical challenge for 'RENATA en Vivo' is to generate a tool that allows institutions to record all their events. Today, with a request of the institutions, we can do it. But the idea is to allow them to do it directly, without asking us for help. We believe that in 2015 this possibility will be a reality. We are interested in providing to our community the chance to see the live broadcasts as well as consult in www.renata.edu.co".

One of RENATA priorities associated to this service is to assist institutions in order to optimize their efforts as organizers managers of academic, scientific and technological activities, to put their events to reach the SNCTI actors of Colombia and any Internet user.

When an institution connected to RENATA schedules an event to be broadcasted by the network, apart from the possibility of the transmission with a better quality, it is gaining visibility throughout its dissemination through www.renata.edu.co, sending e-mails to a database with more than 15,000 subscribers and the distribution of messages through social networks like Facebook and Twitter.



JJavier De La Plaza, Public Administration and B2B Market Development Global Director, Telefónica:

"TICAL is the space where experiences and interesting initiatives in the ICT field converge"

On the morning of last May 26, Javier De La Plaza was one of three panelists at the opening session of TICAL2014, in his presentation he refer to universities and digital cities, subject in which he elaborated on November 27 during the first day of the virtual cycle on Intelligent Cities jointly organized by RedCLARA and Telefónica. Looking forward to the fifth edition of the TICAL Conference, we talked with him.

María José López Pourailly

Telefónica accompanies and supports TICAL conferences since 2012. What reason has motivated this continued partnership of Telefónica with TICAL?

TICAL is a forum where experiences, initiatives and interesting knowledge in the ICT field converge, a forum where Telefónica is keen to listen as stakeholders.

In your presentation at TICAL2014 you indicated that the largest cities in Latin America will generate 65% growth over the next 15 years and that the challenge is to make these cities competitive. Do

you think that the forum to exchange knowledge that TICAL offers from the world of ICT development in the academia, can help to turn this challenge into an achievement? What is Telefónica doing today to achieve this goal?

In Telefónica we understand that the competitiveness of the cities in this new economic context will mean an implication of ICT and advanced analytical tools to allow the development of services targeted to citizens, in order to more effectively transmit that qualification, knowledge and creativity of its citizens.



Foto: Bosco Martín / www.boscomartin.com

Javier De La Plaza, Perfil

Responsável pela Administração Pública e Clientes Multilatinas na América Latina, de Telefónica.

Engenheiro superior de Telecomunicações pela Universidade Politécnica de Madri e Executive MBA pelo IE. Profissional com mais de 15 anos de experiência em áreas de Marketing e Comercial. Sua carreira profissional esteve vinculada principalmente à América Latina. Iniciou sua caminhada profissional em funções relacionadas ao desenvolvimento de negócios para Alcatel - Lucent e experimentou grande evolução nos últimos nove anos, desenvolvendo comercialmente os segmentos de Multinacionais e Administração Pública. Nesse meio tempo assumiu responsabilidades de Product Manager e Marketing Estratégico durante cinco anos em Telefónica Espanha.

In a region where apparently the initial problem of universities is to conquer the young to turn it into university student mass, and where the level of research endorsed in the publication of scientific academic papers is low, why does Telefónica bet on the development of digital cities and how will you seek to take the universities of the region out in this way?

Universities must play an active and catalytic role in the development of a digital city as a generator of the ecosystem (ICT industry, public sector, private sector, entrepreneurial community), and that is why Telefónica is supporting any initiative and partnership with University, where our vision, experience and abilities can provide added value in all areas of the development process.

You quoted Mandela in your presentation, using his famous phrase "Education is the most powerful weapon which you can use to change the world." In seeking to implement digital cities in the region, what place gives Telefónica to this phrase and how does involve it in the processes of implementation of these cities?

Any solid education system that is oriented to continuous training is an important part of any city to attract and retain a qualified and diverse population, this involves improving its attractiveness and quality of life, which is

why for Telefónica there is a very important component in education, to foster the training of future innovators and entrepreneurs, which often coexist in an environment where continuous training is particularly relevant.

From what you'd lived in TICAL2014, and now that the call for TICAL2015 is already launched, considering the experience that you gain during the previous edition, in what would deepen and why?

Active Sessions forums or areas where collaboration is seeking to develop projects in the ICT world.

What do you think is the fundamental value of the TICAL conferences?

Sharing of knowledge and experiences.

Do you consider is relevant that Telefónica perpetuate over time its relationship with TICAL? Why?

Of course. TICAL is the space where experiences and interesting initiatives in the ICT field converge, that involves the transfer of knowledge, where Telefónica plays an important role for its expertise and capabilities in Latin America.

AGENDA 2015

January

26-28 | Las Palmas 2015 FIRST/TF-CSIRT Technical Colloquium

Las Palmas de Gran Canaria, Spain
<http://www.first.org/events/colloquia/laspalmas2015>

February

24 Feb - 6 Mar | APRICOT 2015

Fukuoka, Japan
<https://2015.apricot.net/>

March

2-6 | 39th APAN Meeting

Fukuoka, Japan
<http://www.apan.net/meetings/Fukuoka2015/>

12-13 | WACREN Conference 2015

Abuja, Nigeria
<http://indico.wacren.net/event/0/>

9-11 | Research Data Alliance (RDA) 5th Plenary Meeting

San Diego, California, United States of America
<https://www.rd-alliance.org/plenary-meetings/rda-fifth-plenary-meeting.html>

22-27 | 92nd IETF Meeting

Dallas, Texas, United States of America
<http://www.ietf.org/meeting/92/index.html>

31 Mar - 2 Apr | Janet - Networkshop 43

Exeter, United Kingdom
<https://networkshop.ja.net/>



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