

NetLab

Use Cases for Interconnected Testbeds and Living Labs

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EXECUTIVE SUMMARY

In this document we identify the means to carry out the dissemination tasks of NetLab project's results. Depending on the tasks nature, we identify fora, standardization bodies, and technological platforms, and also the different events academic of business oriented relevant for the partners of the project. This document builds upon the initial dissemination plan, and will also have a delivery date, though it is still considered as a “live” document until the end of the project, which will still be improved and further completed with the partners inputs, and specially with the additional collaborations that may take place among them beyond the project initial plans.

At this stage of the project, we have initiated and achieved some activities of exploitation, among them we may cite the contribution to ETSI TISPAN IPTV standardization, the organization of QA&TEST2008, and dissemination activities, among them the publication of an article in the International Journal IEEE Transactions on Consumer Electronics, listed in the ISI World of knowledge Journal Citation Reports.

We have planned the 1st NetLab International Workshop to be held in September 2009 together with the Second IFIP Wireless and Mobile Networking Conference (**WMNC 2009**) which is the result of three joint events: PWC (Personal Wireless Communications) – since 1996, MWCN (Mobile and Wireless Communication Networks) – since 1998, and WSAN (Wireless Sensor and Actor Networks) – since 2007. The consortium also decided to send a joint article as a project contribution, besides individual papers of the partners. Finally, it was also agreed to organize a round table on IMS interoperability and other relevant topics for NetLab, such as DVB-H. All the activities regarding the 1st NetLab International Workshop will be detailed in a separate deliverable namely D6.4 which will be delivered by the December 2009, after the event.

Within the objectives of this plan, dissemination of research and technological results of the NetLab project are prioritized in first place, to ensure a richful knowledge transfer. It is also objective of this plan to ensure the dissemination of other results. The main goal is to guarantee the transfer of scientific knowledge specifically generated in the NetLab project and to ensure the sustainability of the research works. So, the industrial and business dissemination activities are of great importance, since they prepare the market to accept the results of the NetLab project. Activities which allow to strengthen the relations with customers, with necessities and interests close to NetLabs, are of outmost importance, and so are the activities oriented to establish first contacts to increase the number of potential customers. Last, it is necessary to generate generic dissemination material to support the business and research activities and improve the visibility of the project. And exemple of such material is the brochure produced by the partners of the project and the different material (presentation and papers) linked through the webpages of the project .

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Document history

| Document version # | Date | Remarks |
|--------------------|------------|--|
| V1.0 | 10.11.2008 | First draft – no format |
| V1.1 | 5.12.2008 | Inputs from Spanish partners - formatted |
| V1.2 | 20.3.2009 | More input and editing – submitted to review (CICYT) |
| V2.0 | 19.06.2009 | More input and editing |
| V2.1 | 22.10.2009 | More input and editing |
| | | |
| | | |

1Introduction

In this document we identify the means to carry out the dissemination tasks of NetLab project's results. Depending on the tasks nature, we identify fora, standardization bodies, and technological platforms, and also the different events academic of business oriented relevant for the partners of the project. This document builds upon the initial dissemination plan, and will also have a delivery date, though it is still considered as a “live” document until the end of the project, which will still be improved and further completed with the partners inputs, and specially with the additional collaborations that may take place among them beyond the project initial plans.

2Webpage creation

For the dissemination of the project several webpages have been elaborated. From the Ericsson Network Services (formerly HyC) page the NetLab project is accessed, in that page the financing spanish ministries are credited, and the main objectives of the project are listed. The page is the following:

<http://www.hyctv.com/innovation.htm>

Below we show a screen capture:

net lab

MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO

Project funded by the Spanish Ministry of Industry, Tourism and Commerce

NETLAB:

NetLab is a Celtic European project whose aim is to develop a platform of interconnected test beds involving 3 different countries, together with different Living Labs designed to tackle their interoperability, their scalability, their complexity, mobility aspects as well as security and QoS requirements coupled with validation in large scale testing environments.

Netlab consortium is formed by:

- DIMES, FI
- University of Turku, FI
- Octopus Network, FI
- HyC – Part of the Ericsson Group, ES
- Telefonica I+D, ES
- Universidad Carlos III, ES
- Software Quality Systems (SQS), ES
- Slovak Telekom, SK
- Slovak University of Technology in Bratislava (STUBA), SK

Living Labs: The Future of Networks

HyC Octopus Network

EUREKA 213187

CELTIC

HyC Group

Cerrar

The equivalent page is listed at the CELTIC site:



Funded by



MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO



[Finnish Funding Agency for Technology and Innovation](#)

Slovak Ministry of Industry



Use Cases for Interconnected Testbeds and Living Labs

🔗 [Project Website](#) hosted at [Next Generation Networks Labs](#)
🔗 [Internal Documents](#) hosted at [UC3M](#)

🔗 [Project leaflet \(PDF\)](#)
🔗 [Links](#)

Project Key Data

Project ID: CP5-018
Start date: 07/2008
End date: 12/2010
Total budget: 4133 kEUR
Total effort: 53,7 PY

Coordinator: Timo Lahnalampi, DIMES
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Project Consortium

DIMES, FI
Telefonica I+D, ES
Slovak University of Technology in Bratislava (STUBA), S
Ericsson Network Services S.L., ES
Slovak Telekom, SK
Universidad Carlos III, ES
University of Turku, FI
Octopus Network, FI
Software Quality Systems (SQS), ES

Abstract

European strength has been based on cooperation and smart combination of diversified resources. The Panlab work was initiated to define the mechanisms to engage test and research enabling resources into a common shared platform. On the other hand, the Living Labs concept has gained wide interest as it offers a research and innovation platform which can enhance economical, social and cultural systems cross-regionally and cross-nationally. Living Labs - as integral elements of the European Network of Living Labs - should be able to create European-scale experimentation platforms and pilot user groups for new services, business and technologies and thus help in the creation of new market and industries together with technology oriented Panlab-based testbeds.

The Panlab framework on interconnected testbeds is now producing results and reflections on the issues and gaps that need to be solved when creating a European network of testbeds. There is clearly a need to build a first instantiation of such an interconnected test-bed to experiment and validate the Panlab results.

The aim of Netlab is to develop a platform of interconnected test beds involving 2 different countries together with different living labs designed to test the

3NETLAB Supportive Activities

Partners involved in this project are member of the European Technological Platforms, participating and attending to the different Meetings, Assemblies and Steering Boards:

ETSI TISPAN: Slovak partners have significantly contributed in the area of IPTV standardization. Slovak Telekom hosted ETSI TISPAN meeting in April and had several contribution on last WG2 TISPAN meetings in Q2/2009. On June 2009 Meeting it was approved stage 2 specification (architecture). There is also work on test specification for IMS based IPTV for ETSI IPTV plug test planned for October 2010 (http://www.etsi.org/plugtests/IMS3_IPTV1/IMS_IPTV.htm).

Networked and Electronic Media (NEM): European Industrial Initiative, also known as Technology Platform, established by relevant key European stakeholders, which address the convergence of media, communications, consumer electronics, and IT as a wide opportunity for future growth, by taking advantage of generalized broadband access, increased mobility, availability of richer media formats and contents, as well as new home networks and communications platforms. Further information about this Technological Platform can be found in <http://www.nem-initiative.org/>

Integral Satcom Initiative (ISI): Industry-led action forum designed to bring together all aspects related to satellite communications. ISI addresses broadcasting, broadband, and mobile satellite communications, as well as their convergence, in integration within the global telecommunication network infrastructure. ISI supports all forms of space communication and space exploitation. ISI is a Technology Platform included in the seventh Framework Programme (FP7) of the European. Further information about this Technological Platform can be found in <http://www.isi-initiative.org/>

eMobility: Technological Platform that stands for bringing together European organizations to address, as a community, the challenges of future networks, building on Europe's success in mobile communications. The aim for this Platform is to reinforce Europe's leadership in mobile and wireless communications and services and to master the future development of this technology, so that it best serves Europe's citizens and the European economy. eMobility supports action and efficient collaboration, enabling the network community to turn visions into innovations. Further information about this Technological Platform can be found in <http://www.emobility.eu.org/index.html>

Spanish partners involved in this project are member of the Spanish Technological Platforms, participating and attending to the different Meetings, Assemblies and Steering Boards

Spanish ISI (eISI): Spanish Satellite Platform to complement European Satcom Initiative in Spain and with the same objectives and goals. It was created in 2005 with support of the Spanish Industry, Tourism and Commerce Ministry and Spanish CDTI. Further information about this Technological Platform can be found in <http://www.idi.aetic.es/eisi/>

Spanish NEM (eNEM): Spanish Networked Electronic Media to complement European NEM Platform in Spain and with the same objectives and goals. It was created in 2005 with support of the Spanish Industry, Tourism and Commerce Ministry and Spanish CDTI. Further information about this Technological Platform can be found in <http://www.idi.aetic.es/enem/>

Spanish eMOV: Spanish Mobile and Wireless Communications Technology Platform to complement European eMobility Platform in Spain and with the same objectives and goals. It was created in 2005 with support of the Spanish Industry, Tourism and Commerce Ministry and Spanish CDTI. Further information about this Technological Platform can be found in <http://www.idi.aetic.es/emov/>

eS.INTERNET: Spanish Technological Platform of convergence towards the "Internet of the Future", recent initiative created in 2008 with support of the Spanish Industry, Tourism and Commerce Ministry and Spanish CDTI. This platform will be used as a link between the rests of Spanish Platforms. Further information about this Technological Platform can be found in:

http://www.aetic.es/es/inicio/plataformas_tecnologicas/eS.INTERNET/contenido.aspx

The Home Gateway Initiative (**HGI**) is an open forum launched by Telcos in December 2004 with the aim to release specifications of the home gateway. In addition to Telcos, several manufacturers have joined the alliance.

HGI was formed to boost the market of home communication services to the millions of broadband customers served by its founding members. The initiative will drive the development of residential gateways supporting the delivery of services. The goals of the initiative are:

- To produce and downstream requirements for a residential gateway enabling end to end delivery of services.
- To work with manufacturers in order to leverage volumes, to validate with manufacturer against uses cases and requirements, to ensure interoperability.
- The initiative will take as a basis the work undertaken within existing bodies (such as ITU H610, DSL forum, DLNA, OSGi Alliance ...) and will analyse gaps with respects to its requirements.

The goals are realised through the open international collaboration of all interested parties, on reasonable terms applied uniformly and openly. HGI is a not for profit organisation.

HGI will contribute to appropriate standards bodies and especially to an organization as the ITU-T.

Telefonica is one of the HGI's founder members and Telefonica I+D handle HGI issues in behalf of Telefonica Group. Telefonica's efforts are focused on:

-Defining a common architecture for the Residential Gateway in order to provide advanced services, such as interactive TV, VoIP, Tele-care, Multiple-Play and Digital Home Remote Management

-Standardizing the Residential Gateway in order to assure interoperability, simplify provisioning processes and reduce new services' time-to-market.

4Dissemination of Knowledge

In this chapter all activities are listed which followed the aim to make NETLAB project's results more visible. This includes all activities from the future and the past which were done on the scientific (this can be conferences, publications etc.) and on the commercial sector (like trade shows, customer presentations etc.).

| Planned / actual Dates | Event | Type of audience | Countries addressed | Size of audience | Partner responsible / involved |
|------------------------|--|--|---------------------|------------------|--------------------------------|
| 30/11/2008 | IEEE GlobeCOM | research | Int | >500 | UC3M |
| 09/12/2008 | ACM International Conference on Emerging Networking Experiments and Technology | research | Int | >100 | UC3M |
| 29-31/10/2008 | QA&Test | CEO, CTO, Quality Managers, Testing Managers, Project Managers, Managing Directors | Int | >100 | SQS, Octo |
| 14-18/12/2008 | <i>PII Plenary Meeting Oulu, Finland</i> | research | Int | ~25 | DIMES, Octo |
| 04-07/11/2008 | <i>IMS Conference & Workshops Fraunhofer FOKUS - Berlin, Germany</i> | research | Int | >100 | Octo |
| 28-29/10/2008 | <i>World Mobile Summit seminar Stockholm, Sweden</i> | Commercial, research | int | >100 | Octo |
| | | | | | |

| Planned / actual Dates | Event | Type of audience | | Size of audience | Partner responsible / involved |
|-------------------------------|---|-------------------------|-----|-------------------------|---------------------------------------|
| 11-13/09/2008 | <i>FIRE Strategy Workshop + FIRE Launch Event Université Pierre et Marie Curie - Paris, France</i> | Commercial, research | int | >100 | Pll, Octo |
| 07-11/09/2008 | <i>The 11th International Symposium on Wireless Personal Multimedia Communications Saariselkä, Finland</i> | Commercial, research | int | >300 | Octo |
| 06-11/06/2008 | <i>Pll Kickoff Seminar Vrije Universiteit Brussel (VUB), Brussels</i> | Research | int | > 20 | Pll, Octo |
| 12/01/2009 | International Conference on Consumer Electronics (ICCE) | commercial, research | Int | >500 | UC3M |
| 11/03/2009 | Celtic Event (Paris) | commercial, research | EU | >250 | all |
| 04/2009 | The 5th International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities | Commercial, research | Int | >100 | STUBA, Slovak T-kom |
| 17/05/2009 | IEEE Symposium on Security & Privacy | research | Int | >250 | UC3M |
| Apr 2009 | ETSI TISPAN WG2 Meeting | research | Int | | STUBA, Slovak T-kom |

| Planned / actual Dates | Event | Type of audience | | Size of audience | Partner responsible / involved |
|------------------------|--|----------------------|-------|------------------|--------------------------------|
| 25/05/2009 | International Symposium on Consumer Electronics (ISCE) | commercial, research | Int | >500 | UC3M |
| 04/06/2009 | International Conference on Applied Cryptography and Network Security | research | Int | 50 | |
| 14/06/2009 | IEEE International Conference on Communications | research | Int | >500 | UC3M |
| 01-03/07/2009 | The FIREweek & LivingLabs event in Luleå 20090701-03 | Commercial, Research | Int | >500 | DIMES |
| 14/09/2009 | International ICST Conference on Security and Privacy in Communication Networks | research | Int | 50 | UC3M |
| 15-17/07/2009 | IWQoS 2009: 17th International Workshop on Quality of Service | research | Int | | TID |
| Sep. 2009 | Telecom I+D 2009 | research | Spain | | TID, SQS |
| 30-4/12/2009 | IEEE Globecom 2009: Global Communications Conference. Exhibition & Industry Forum | commercial, research | Int | | TID |
| 07-10/09/2009 | <i>The 12th International Symposium on Wireless Personal Multimedia Communications Sendai, Japan</i> | commercial, research | Int | | Octo |
| 06-10/09/2009 | <i>2nd Joint IFIP Wireless and Mobile Networking Conference Gdansk, Poland</i> | research | Int | >50 | ALL |

| Planned / actual Dates | Event | Type of audience | | Size of audience | Partner responsible / involved |
|------------------------|---|----------------------|-------|------------------|--------------------------------|
| 22-25/06/2009 | PII Plenary Project Meeting Madrid, Spain | research | Int | ~25 | TID, Octo |
| 15-19/02/2009 | 3GSM World Congress & Expo Barcelona, Spain | commercial, research | Int | > 50k | Octo, UTU, TID |
| Sep 2009 | EUNICE 2009, Barcelona, Spain | Research | Int | >30 | UC3M |
| Sep 2009 | JITEL 2009, Cartagena, Spain | Research | Int | >50 | UC3M |
| Nov 2009 | 1st ngnlab.eu International NGN workshop | Research | Int | >20 | ALL |
| 2010 | IWQoS 2010: 18th International Workshop on Quality of Service | research | Int | | TID |
| 2010 | Telecom I+D 2010 | research | Spain | | TID, SQS |
| 2010 | IEEE Globecom 2010: Global Communications Conference. Exhibition & Industry Forum | commercial, research | Int | | TID |
| 18-20/05/2010 | TridentCom 2010 Conference Berlin, Germany | commercial, research | Int | | PII, Octo |
| 12-16/04/2010 | Celtic Event and FIA Meetings Valencia, Spain | commercial, research | Int | | PII, DIMES, UTU, Octo |
| Jan 2010 | International Conference on Consumer Electronics (ICCE) | commercial, research | Int | >500 | UC3M |

4.1 Short description of activities:

QA&TEST® is a unique conference and will bring together professionals and experts from different sectors such as: Railways, Aeronautics, Medical Systems, Electronic Devices, Banking, Insurance or Telecommunications.

The intention of SQS is to diffuse the latest technological developments in Software Testing and Quality Assurance, and to showcase successful best practices, which may give a lead in Global Competition.

This year Jussi Mäkkinen, from Octopus, participated in the conference as a keynote speaker. His presentation took place to illuminate the **challenges of testing work** from the point of view of telecommunications and other wireless industries and also to give the audience better understanding of the opportunities in the rapidly changing testing business. Jussi Mäkkinen's conference was focused not only on testing but on the need of access to good Testing Infrastructures to validate new generation applications.

IWQoS has become the premier forum to present original, novel ideas on all research subjects related to quality of service provisioning at end systems or in a networked environment. Recent technological advances in broadband networks, peer-to-peer networks, wireless networks, grid computing, and Internet-based social networks has led to new research challenges, such as providing QoS support for multimedia applications on the future Internet that seamlessly integrates wired, wireless, and overlay networks. Building on the previous success, the objective of this workshop is to bring together researchers, developers, and practitioners working in this area to discuss recent and innovative results, and to identify future directions. The scope of the workshop covers all aspects of QoS research, including related issues such as availability, reliability, security, pricing, resource management, and performance guarantees.

IEEE GLOBECOM is the Premier Telecommunications Event for Industry Professionals and Academics from Companies, Governmental Agencies, and Universities around the World.

This event covers the entire range of communications technologies, offering in-depth information on the latest developments in voice, data, image, and multimedia:

-Technical Symposia focuses on technological trends in recent communication research and development from academia to the industrial laboratories throughout the world.

-Tutorials & Workshops address emerging technical and business issues in communications technologies.

IEEE GLOBECOM Communications EXPO, which is sponsored by IEEE Communications Society, exhibits the newest and most innovative solutions from leading companies.

-Business Forum includes panel sessions on Design & Development, Enterprise Networking and Access.

-CEO Forum features high-level executives addressing challenges, opportunities, and the future of the industry.

-Exhibition showcases the latest technologies, applications, and services.

Telecom I+D, after 18 editions, has become in one of the most prestigious events within Information and Communications Technology sector and the reference event for innovative companies in Spain.

Sponsored by the Spanish Ministry of Industry, Tourism and Commerce, first-rate national universities and leading companies in the technological Spanish market, Telecom I+D constitutes a meeting point for sharing knowledge and generating synergies.

Telecom I+D aims to give a balanced and comprehensive view of new technologies to serve society, which will reflect the developments and R&D capacity in Spain. To achieve this goal, Telecom I+D presents government-university-enterprise strategies and development plans and business initiatives to support national R&D.

Therefore, not only the most innovative technology perspectives in the telecommunications sector is presented, but it is also made an approach to the market and the real end-user's needs, which actually generate the new technology demand.

All these messages will be focused on the goal of increasing national competitiveness and digital convergence concepts that today constitute the basis for development of the telecommunications market.

FIREWEEK 2009

29 June - 3 July 2009 - Luleå, Sweden an event under the Swedish Presidency

In the week from 29 June onwards, during the start of the Swedish Presidency, the FIRE week 2009 will be held in Luleå, Sweden. There will be a opportunity to "unite" the FIRE-projects, which started before the 2008 summer break for one big cluster review. A Fire Plenary event is foreseen to be organised adjacently in order to stimulate collaboration between projects. The FIRE week 2009 will also include a Living Lab event. Both plenary events will be open for the public and in particular for all other FIRE, SAC and Living Labs projects. Related to NetLab project we could have a possibility to show some initial results of our project if possible (e.g. a use case that is working manually now and will be automatic after NetLab interconnections are ready)

The Luleå University of Technology, Centre for Distance-spanning Technology (CDT - <http://www.cdt.ltu.se/>; <http://www.ltu.se/>), together with the local authorities has kindly offered to host this FIRE week.

Initial outline of the programme:

Monday 29 June : FIRE project reviews

Tuesday 30 June : FIRE project reviews

Wednesday 1 July: FIRE plenary event

Thursday 2 July: Living Lab event

Friday 3 July: FIRE project reviews (if needed)

More information about the FIREWORKS at: <http://www.ict-fireworks.eu/>

and about the event at: <http://www.ict-fireworks.eu/events/eventview/article/fireweek.html>

TRIDENTCOM 09: The 5th International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities, which is a relevant event for the NetLab project. TRIDENTCOM also hosted the **ONIT 2009** workshop, devoted to Next Generation Networks and IMS Testbeds.

The conference has published two papers contributed by Slovak partners of NetLab: STUBA & T-Com Slovak Telekom. The papers are:

- Eugen Mikoczy, Sebastian Schumann, Stephen Massner, and Michael Marushke: "Presence service integration using interconnected IP Multimedia Core Networks", 6-8 April 2009, Pages:1-6, doi: 10.1109/TRIDENTCOM.2009.4976255
- Eugen Mikoczy, Sebastian Schumann, Hans Stokking, M. Oskar van Deventer, and Omar A. Niamut: "Combinational services for NGN based IPTv", 6-8 April 2009, Pages:1-8, doi:10.1109/TRIDENTCOM.2009.4976211

ICCE 2009, 2010: The International Conference on Consumer Electronics (ICCE), presented by the IEEE Consumer Electronics Society, is where key technologies, products, services and architectures for consumer entertainment and information delivery are first presented. This annual conference takes place in Las Vegas. One paper was presented at the 27th edition (2009) by NetLab spanish partners:

- Daniel Díaz-Sánchez, Andres Marin, Florina Almenárez-Mendoza, and Alberto Cortés-Martín, Universidad Carlos III de Madrid, Spain "Sharing Conditional Access Modules through the Home Network".

Two full papers have been accepted at the 28th edition (2010) of the conference:

- Daniel Diaz-Sanchez, Andrés Marín, Florina Almenarez, Alberto Cortés, Universidad Carlos III de Madrid, Spain: "Socializing electronics: Secure interactions in social networks".
- Daniel Diaz-Sanchez, Fabio Sanvido, Davide Proserpio, Andrés Marín, Universidad Carlos III de Madrid, Spain: "Extended DLNA protocol for sharing protected pay TV contents".

EUNICE 2009: Under the motto "The Internet of the future", took place in Barcelona the 15th edition of the EUNICE summer school, sponsored by the IFIP TC6. The EUNICE network has been created to foster the mobility of students, faculty members and research scientists working in the field of information and communication technologies and to promote educational and research cooperations between its member institutions. The prime means for implementing these goals is the annual summer school organized by the member institutions taking turns. This summer school brings together lecturers, researchers, students and people from the industry across Europe for one week of presentations, discussions and getting to know each other. In the 15th edition we presented the poster:

- Davide Proserpio, Fabio Sanvido, Daniel Díaz Sánchez, Florina Almenárez, and Andrés Marín: "An improved IMS authentication mechanism and its cost analysis".

JITEL 2009: The **Jornadas de Ingeniería Telemática (JITEL)** are the academic most important fora for spanish groups lecturing and researching in networking and telematic services areas. This conference aims at increasing the exchange of ideas, experiences, results and the communication and cooperation among the spanish research groups in telematics. Two papers by the UC3M group were accepted:

- Daniel Díaz Sánchez, Davide Proserpio, Andrés Marín López, Florina Almenárez Mendoza, Alberto Cortés Martín: “Propuesta de un protocolo de autenticación mejorado para IMS y estudio de viabilidad”.
- Daniel Díaz Sánchez, Fabio Sanvido, Andrés Marín López, Florina Almenárez Mendoza, Alberto Cortés Martín: “Extendiendo TLS para el soporte de transmisión multicanal seguro en señalización”.

Dissemination at the **WMNC 2009** will be covered in a dedicated deliverable.

1st ngnlab.eu International NGN workshop: November 25, 2009, Bratislava, Slovakia will be a meeting point for ngnlab friends and project partners to discuss latest trends and advances in NGN with leading industrial and academics experts. The workshop will include live demos from different projects (including NetLab). The workshop will be chaired by Dr. Ivan Kotuliak and organized by Slovak University of Technology and ngnlab.eu team in cooperation with European Celtic project NetLab. The presentations will cover most important topics around NGN, including:

- Network convergence and evolution of NGN
- Multimedia and converged services in NGN
- NGN testbed and interconnections
- Research and educational activities in field of NGN studies
- NGN standardization - 3GPP / ETSI TISPAN / ITU-T
- Converged services IPTV, RCS, Internet
- Future of converged networks, trends in NGMN, LTE, SAE, IMS, FTTx
- Development of NGN services in lab environment
- Virtual laboratories, testbed collaborations
- Real experiences and deployments of NGN
- Future networks and future of NGN

4.2 Visiting Researchers

Daniel Díaz Sánchez, one of the key persons of the UC3M group at NetLab, is presently in a reserch stay at the Fraunhofer-Institut für Offene Kommunikationssysteme (FOKUS) NGNI. The FOKUS competence center Next

Generation Network Infrastructures (NGNI) provides the expertise and technologies for implementing innovative, seamless multimedia applications enabled by emerging Open Service Delivery Platforms (SDPs) on top of converging heterogeneous network technologies, such as fixed and mobile telecommunication networks, Next Generation Networks (NGNs), Next Generation Mobile Networks (NGMNs), the Internet and the Future Internet (FI).

Daniel received a visiting researching grant from the Spanish Education Ministry. FOKUS was originally one of the pioneers partners of NetLab, though they could not finally join the project due to lack of financing. In spite of that, slovak and spanish partners have maintained a fluent communication with the team leaded by Prof. Thomas Magedanz. The FOKUS team is very active in the NGN area, having developed the OpenIMS core, which is used by several partners in the project. It is also remarkable the Open SOA Telco playground, a open testbed for experiencing and validating the development, provisioning, execution, and management of converging Next Generation Network and Future Internet applications based on SOA (Service Oriented Architecture) principles. They are also coorganizers of TRIDENTCOM 2010 conference, and the ONIT workshop which will be addressed by the NetLab consortium as a new opportunity to disseminate its results.

Daniel will stay at FOKUS for six months, until february 2010. The objectives of Daniel's stay are very aligned to NetLab interests, since he is partly transferring UC3M experience with OpenIMS core, and the enhancements in security and identity management carried out at the UC3M group.

5 Publishable Results

Among the first publishable results in the security research area, we may cite an article published in an international journal classified among the first third of the Telecommunications category in the ISI Journal of Citation Reports:

“Sharing Conditional Access Modules through the Home Network for Pay TV Access” Daniel Díaz-Sánchez, Andrés Marín, Florina Almenárez-Mendoza y Alberto Cortés-Martín, Universidad Carlos III de Madrid. IEEE Transactions on Consumer Electronics:

The article presents an original approach to integrate legacy conditional access systems in the future multimedia content broadcasting networked systems, such as IPTV, and how to allow the end-users with the maximum flexibility access. It is the result of a user-centric design, or more concretely centered around the user domestic network, while satisfying the content provider, conditional access, and ISPs needs to adapt to the new user reality, which has at her disposal multiple heterogeneous networked devices.

In the first face to face consortium meeting in Madrid hosted by the UC3M, the organization of an international workshop in 2009 was proposed. It was required to be held together with an international event relevant for the objectives of the project. The proposal was to join efforts with the **Second IFIP Wireless and Mobile Networking Conference** (WMNC 2009) which is the result of three joint events: **PWC (Personal Wireless Communications)** - since 1996, **MWCN (Mobile and Wireless Communication Networks)** - since 1998, and **WSAN (Wireless Sensor and Actor Networks)** - since 2007. In 2008 the steering committees of PWC and MWCN decided to join both conferences, and in 2009 WSAN also adhered to the initiative. WMNC conference will be held in Technological University of Gdańsk, from the 9th to the 11th of September 2009. UC3M has contributed in last three years to the IFIP conferences PWC and MWCN, and since we chaired a session devoted to IMS, we discussed with them about organizing such a workshop. WMNC steering committee was open to this possibility, and in the face to face NetLab meeting in December 2008 in Madrid, the NetLab consortium reached an agreement to organize the International workshop as a special session of the WMNC, sharing their review and publish policies. The consortium also decided to send a joint article as a project contribution, besides individual papers of the partners. Finally, it was also agreed to organize a round table on IMS interoperability and other relevant topics for NetLab, such as DVB-H.

The joint paper has been finally accepted for publication at the WMNC 2009. There have been three more papers accepted contributed from NetLab partners. They will be linked at the NetLab webpage.

6 Summary and Conclusion

Good working and well-coordinated dissemination activities are essential for the long-lasting success of a project. All partners are committed to disseminate NETLAB research results by commercial and scientific activities. We have defined in this document the roles, interests and use plans for each partner in order to identify synergies and interdependencies between the partners and to bundle all dissemination activities.

Yet, some exploitable results have been achieved and several dissemination activities have conducted or at least initiated. The following items have to be taken into account and are being (and will be) dealt with accordingly in the NETLAB project:

1. Firstly, it is necessary to disseminate the **scientific results** of the NETLAB project. International networks of researchers working on the same research areas have to be set up so that results and knowledge can be exchanged. The aim is to guarantee the scientific transfer of the know-how which has been worked out in the NETLAB project and therefore to ensure the sustainability of the research work.
2. Second, **commercial activities** are necessary for the dissemination in order to prepare the later roll-out of NETLAB project results on the market. Therefore it is necessary to establish first contacts with potential customers.
3. General **dissemination material** is needed in order to support all scientific and commercial activities and to improve the visibility of the project.