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Abstract:

This deliverable presents the dissemination and clustering activities achieved by the project during 2012, as well as the plans for the remaining project time and the partner's exploitation plans.

Keywords:

IPv6, Governments, Dissemination, Clustering, Roadshow.

Revision History

The following table describes the main changes done in this document since its creation.

Revision	Date	Description	Author (Organization)
v0.1	01/08/2012	Document creation	Jordi Palet (Consulintel)
v0.2	19/09/2012	Added Content	Jordi Palet (Consulintel)
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v0.6	14/02/2013	Added Content	Jordi Palet (Consulintel)
v1.0	15/02/2013	Added final inputs	Jordi Palet (Consulintel)
v1.1	15/02/2013	Final document revision	Jordi Palet (Consulintel)

Disclaimer

Executive Summary

This deliverable presents the dissemination, clustering and related activities carried-out by the project in the first year, as well as the plans for the reaming duration of the project and the exploitation plans for each of the participants.

It identifies on-line dissemination, internal and external IST-level/others communications. Includes the presentation of project work and results in workshops, events and conferences, as well as other publication initiatives.

It also identifies possible public activities or events to be organized by the project.

The deliverable provides exploitation plans from the project partners, when they can be identified in this early stage of the project.

Finally, it describes the main aspects of the project participation in standards and policy activities.

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1. INTRODUCTION

GEN6 shares the view that a democratic European society, with a strong and productive economy, requires service-oriented, secure, reliable and innovative government, at all levels independently of size and location used by all groups of citizens (elder, handicapped, youngsters, immigrants). Successful implementation of eGovernment can improve services, strengthen our societies, increase productivity and welfare, and reinforce democracy. This success will only be achieved by pursuing a long-term vision, with clear and sustainable objectives, with constancy and persistence, and with participation of all stakeholders: government, citizens and industry. GEN6 will contribute to these objectives in the area of communication and how to transition to IPv6 in the government area.

Looking at the propagation of IPv6 networks and services upon these networks, we can state that we are looking at islands. Narrowing the view to eGovernment, these islands are getting even smaller. As indicated in the call: "With a depletion of IPv4 addresses expected soon, public administrations and other stakeholders must prepare for IPv6 deployment in order to ensure continuity of their services.". IPv4 addresses are not available anymore. So, actions have to be taken to pave the way for administrations to IPv6: "The aim is hence to stimulate the upgrade of eGovernment infrastructures, and services of public interest to IPv6."

This goal will be achieved by evaluation of available guidelines from research and administrative institutions (US NIST Profiles and documents from RIPE) to develop assistance targeting at European administrations. In parallel, GEN6 will execute a number of different pilots based on existing and running services and infrastructures to set up practical hands-on guidelines with checklists and evaluation charts. Due to the different characteristics of the pilots, those guides will encompass network equipment, middleware, portal technologies and up to dedicated government applications of different Member & Associated States. Pan European requirements will be identified within two cross-border scenarios.

The project match exactly the objectives, general and in detail, as stated in the call. GEN6 has taken measures to achieve the requirements of those objectives, as listed in the following table.

The project will have different national and cross-border pilots. Replicating many aspects of the pilots across different existing infrastructures in different countries, that have different approaches, allows more alternatives to be tested in real scenarios, providing a broader view for the replication of the project results across Europe, while actually the project approach reduces the cost, because of the parallel learning and knowledge exchange among partners, and maximizes the impact of the resources involved in the project.

The outcome of the pilots will contribute to provide general guidelines and will provide

additional documentation based on transition experiences in different fields

Those results will be used for an European-wide dissemination campaign in order to further stimulate the EU-wide take-up of IPv6 in public administrations and by other relevant stakeholders.

The communication activities and road shows of GEN6 will make sure that the achievements of the project are well disseminated during the project and especially in the last 12 months of the project, which are aimed to a targeted European-wide dissemination campaign aimed to the stimulation of the IPv6 uptake in public administrations and other relevant stakeholders (targeted to experts and public authorities).

As a practical way to further stress this dissemination, an event will be organized in Brussels together with the EC, several booklets with the project results will be delivered.

Beside this, all classical way to promote GEN6 results are used, such as publications, Internet presence (web service, Facebook, twitter) and presentations with special focus on eGovernment events, as well as clustering activities.

Within GEN6 every pilot will do dissemination on the national level, under the scope of the Dissemination Work Package. The results will be made available to all stakeholders of the pilot but also to national interest groups for government services, equipment and network providers, by means of common dissemination activities, the road show, the project results book and the event organized jointly with the EC.

The project itself will spread the findings and results on the European and international level to make the initial starting points visible and to encourage other administrations to start national transition projects or to help interested authorities to get the first step done. Since transition in this case is less of a technical than a mental question, the documentation will stress the benefits of IPv6 on the one side and give technical advice on the other side.

2. PROJECT CONTACTS

The project has established contacts with different actors around the world, including other IST/CIP, related projects and initiatives.

The main activities related to the work performed by GEN6 which have been contacted or planned to contact are:

Name	Acronym	Website
IPv6 Observatory	IPv6 Observatory	http://www.ipv6observatory.eu/
Secure Identity Across Borders Linked 2.0	STORK 2.0	https://www.eid-stork2.eu/
European Emergency Number Association	EENA	http://www.eena.org
secured Trans European Services for Telematics between Administrations	sTESTA	http://ec.europa.eu/isa/actions/02-interoperability-architecture/2-4action_en.htm
Internet Society	ISOC	http://www.internetsociety.org/
Deploy 360 Programme	Deploy360	http://www.internetsociety.org/deploy360/
RIPE Network Coordination Centre	RIPE NCC	http://www.ripe.net/
Internet Corporation for Assigned Names and Numbers	ICANN	http://www.icann.org/
The Internet Engineering Task Force	IETF	https://www.ietf.org/
International Telecommunication Union	ITU	http://www.itu.int
European Telecommunication Standards Institute	ETSI	http://www.etsi.org/
Digital Agenda for Europe, HLG	DA HLG	http://ec.europa.eu/digital-agenda/
Future Internet Research and Experimentation Initiative	FIRE	http://cordis.europa.eu/fp7/ict/fire/
European Network and Information Security Agency	ENISA	http://www.enisa.europa.eu/
VITAKO	VITAKO	http://www.vitako.de
Deutscher Städtetag	Deutscher Städtetag	http://www.staedtetag.de/
Instituto Nacional de Tecnología de la Comunicación	INTECO	http://www.inteco.es/
Red.es	Red.es	http://www.red.es
ePractice.eu	ePractice.eu	http://epractice.eu/

Table 2-1: Project Contacts

3. DISSEMINATION ACTIVITIES

The dissemination activities have the responsibility of creating awareness regarding the different activities performed by the different work-packages and in general the work being done in the overall project.

Next sections provide some concrete examples of the project intend on this regards.

3.1 Project Website

The main dissemination tool of the GEN6 project is the project website.

It is available at the following URL:

- http://www.gen6.eu

For all the services, both IPv6 and IPv4 are supported.

The project website is working since project Month 3, and will be periodically updated with the documents and results of the project.

The website has been extensively disseminated thru search engines, so it can be easily located as a general information source for the topics related to the project work.

The project website has also some private areas for the partners information exchange, project mail exploders and internal repository/FTP.

3.2 Project News and Press Releases

A section of the web site is devoted to the project and related news. Is expected that the project will be able to produce press releases and news regarding key activities and results.

3.3 Internal Dissemination

The project partners will organize yearly internal workshops in order to promote the awareness creation within their own organizations. Other partners may attend those workshops also, in order to provide complementary contents.

This kind of internal workshops are required in order to ensure the wide dissemination of the project work and results towards the companies involved in the consortium. Otherwise, the experience is that, especially in big organizations, the project aspects may not be disseminated appropriately, so the workshop could provide the path for taking a bigger advantage in terms of exploitation of results and intra/inter-departmental cooperation.

3.4 Public Events

The project is considering the participation in different events such as IST Events among others. The project will also organize such activities if required and invite other related projects and initiatives to participate.

Some of those events may offer possibilities for the project to actually demonstrate some of the developments and results.

3.5 Conferences and Publications

The project will contribute to conferences, workshops and other events where the project results can be made public by means of papers, presentations and other contributions.

The project co-organized already together with the IPv6 Observatory, the Workshop "IPv6@Gov", hosted by the European Commission on 23rd and 24th January 2013. Presentations available at the web site: http://www.ipv6observatory.eu/the-study/workshop-ipv6-gov/.

An example of an upcoming activity is the participation of the project in the FIRE event at Dublin, May 2013, with a demonstration of the Slovenian pilot and half a day workshop, with several technical presentations of national pilots.

The most relevant results of the project will be published as a series of booklets, freely available in PDF, which will be also delivered together with a final project conference, co-organized with the European Commission.

3.6 Clustering/Liaison Activities

As part of the linkage of the project with other activities and constituencies, several levels of liaisons are being considered by the project. Those include other projects, clusters, industry, standard organizations, IPv6 Task Forces, and other national/regional initiatives.

The contacts section of this document already provided an initial list of those already identified.

3.7 Standardization and Policy Activities

Even if the project has no initial plans for standardization work, several partners follow and participate actively in the IETF process, which is also used a tool for the dissemination of the project results, so in case any work from the project results in any standardization activity, this will be approached. The same is applicable in other related or similar standardization fora.

Similarly, several partners are active in the policy process of organizations such as the RIRs (RIPE NCC, LACNIC, APNIC, ARIN, AfriNIC), ICANN/IANA, so in addition to use those fora as one

more dissemination tool with active participation, if the results of the project activities provide inputs for the Policy Development Process, it will be approached.

4. SUMMARY OF DISSEMINATION ACTIVITIES DURING YEAR 1

Following sections depict the dissemination activities from the different project partners during the first year.

4.1 Consulintel

- Presented GEN6 at the IPv6 World event in Paris (7-10th of February), at an internal IPv6 Spanish Ministry of Defence event (14th February), 6DEPLOY review on 6th of March in Brussels, and at the Hellenic IPv6 Task Force in Athens (15th March).
- Paper submitted in April, to the eChallenges e-2012 conference in Lisbon, Portugal (to be held in October).
- Preparation of workshop for public administration in Sofia, Bulgaria, to be held in July, jointly with 6DEPLOY.
- Presentation of GEN6 project at the LACNIC event in Quito, Ecuador, together with other IPv6 and 6DEPLOY related activities (April-May).
- Short introduction of GEN6 at IPv6 training in Istanbul, Turkey (May)
- Short introduction of GEN6 at the Spanish IPv6 Observatory, Madrid - Spain (May)
- Discussion with 6DEPLOY about joint dissemination road-show, Budapest – Hungary (May)
- Short introduction of GEN6 at the 6DEPLOY training in Buenos Aires - Argentina (May)
- Participation in the GEN6 session @ IPv6 World Congress, Brussels – Belgium (June).
- Meeting with EC sTesta group, Brussels - Belgium (June).
- Talks with organizers of August Campus Party in Berlin, Germany (expected attendance 10.000 folks) for IPv6 activities as part of the week schedule (final decisions expected before end of June)
- Project presentation in San Sebastian, Spain, "One month after the IPv6 day" event, 12th July.
- Project presentation in Sofia, Bulgaria, "IPv6 for public administration" event & workshop, 16-17th July.

- Project presentation at the IEEE event in Madrid, Spain, 26th July.

4.2 Tubitak Ulakbim

- ULAKBİM presented GEN6 project at the 2. National IPv6 Conference, which was held in February 15, 2012 at Ankara Turkey. Presentation informed the community about the outline of the project and the Turkish pilot. Over 600 people, including Minister of Transport, Maritime Affairs and Communications, attended to the conference. Attendees were mainly from governmental institutions. Conference web page is available on www.ipv6turkey.org.

- 6th ULAKNET Workshop, which is held every year traditionally, has been carried out between 15-18 Aprilin Çeşme/İzmir/Turkey with over 300 hundred participants. In this workshop, ULAKBİM has presented GEN6 project to the participants who are coming from the IT departments of the connected nodes to ULAKNET. ULAKNET nodes are Universities, National science and technology organizations, National information and documentation centers. Presentation described the main goals of GEN6 project, workpackage details and the role of Turkey in the project.

- GEN6 local page has been published on ULAKBIM web site (http://www.ulakbim.gov.tr/ulaknet/abprojeleri/gen6.uhtml).

- A wiki page describing the GEN6 project has been prepared and published on Turkish version of the Wikipedia (http://tr.wikipedia.org/wiki/Gen6).

- ULAKBİM (Emre Yüce) has made a presentation in "Campus network monitoring workshop" which was held in Brno/Czech Republic at 24-25 April and informed the participants about the GEN6 project briefly. Participants were mainly campus system administrators.

- ULAKBİM (Onur Bektaş) is taking part the World IPv6 Congress, which will be held in Brussels at the end of June. Onur is a speaker in the Panel Discussion and is expected to share his experiences on guidelines for planning and transition steps as the WP3 leader.

- A presentation about ULAKBIM services and projects has been made to Computer Student Group in Bilkent University by ULAKBİM team. GEN6 project has been presented as one of the projects that ULAKBIM has been involved.

4.3 UMU

- UMU presented GEN6 project on the IoT Week IoT Week 2012 and IoT International Forum at the Scuola Grande San Giovanni, Venice, Italy, Wednesday 20.6.2012 on the

IPv6 and IoT Session (http://www.iot-week.eu/iot-week-2012/programme-1/wednesday-1/ipv6-and-iot).

- IPv6 perspectives for the IoT Workshop, Presentation Governments Enabled with IPv6, Antonio Skarmeta (GEN6).

4.4 UL

- UL has organised the Brussels IPv6 Congress and set GEN6 as a track in the agenda with a half a dozen speakers from the GEN6 project.
- UL was one of the editors of the USG v6 Roadmap and circulated it to the GEN6 for their reference.
- UL has contributed to the "Internet protocol privacy" document.
- UL was invited by the German Government (Bundestag) to contribute to the discussion on regulation on privacy for IPv6.
- UL Invited by the Global Forum back in August to speak on GEN6, which took place last week (http://www.items.fr/IMG/pdf/121109_GF_2012-_Evolving_Speaker_Program.pdf), Stockholm, 12. and 13. Nov. 2012.
- UL has co-organised the incoming workshop on IPv6 (http://www.ipv6observatory.eu/the-study/workshop-ipv6-gov/), and is also participating in the joint dissemination activities within the IPv6 Observatory project.

4.5 MINHAP

- MINHAP introduced the GEN6 project to the CP-CSAE on February, 29th, during the presentation of the status of the different initiatives launched by the Spanish Government to promote IPv6. CP-CSAE is the committee that brings together the heads of the ICT departments of the Ministries in the Spanish National Administration. After an introduction of the goals and participants in the project, the presentation focused on the specific details of the Spanish pilots and their significance to demonstrate the maturity of IPv6. The attendees were also invited to contact the project team in the case their departments wanted to take advantage of the project to push up their transition to IPv6.
- MINHAP has also published in February an article in the Spanish e-Government Portal introducing the project, also in the context of the actions taken by the Spanish Government to promote IPv6 (http://administracionelectronica.gob.es/recursos/pae_020002711.pdf).

- MINHAP introduced the GEN6 project to the attendants to the IPv6 and Mobility event held on April, 17th and organised by DINTEL. The project was introduced in the context of the presentation of the different initiatives launched by the Spanish Government to promote IPv6. DINTEL is a foundation devoted to the dissemination of the ICT and the facilitation of the relationships between managers of public and private sectors, always in the context of e-Government strategy and programs.

- MINHAP has also published in June a technical note about the project in the Spanish e-Government Portal, as one of the periodic reports of the e-Government Observatory. The note is available in Spanish (it will be also in English soon) in the following link (http://administracionelectronica.gob.es/recursos/pae_020003362.pdf).

- MINHAP introduced the GEN6 project to the participants of the CP-CSAE IPv6 Addressing Plan Workgroup, during the meeting held on June, 4th. (CP-CSAE is the committee that brings together the heads of the ICT departments of the Ministries in the Spanish National Administration).

- The main objective of this group is to prepare the upgrading of the current Public Administration Interconnection and Addressing Plan, which defines a common addressing space for Public Administration entities that are connected through Red SARA, so that it can managed IPv6 addresses in addition to the IPv4 addresses that are now the only ones considered.

- MINHAP introduced the GEN6 project to the e-Government Sectorial Committee on November 22nd, during the presentation of the status of the different initiatives launched by the Spanish Government to promote IPv6. The e-Government Sectorial Committee brings together the heads of the e-Government units of the Spanish National Administration and the Regional Administrations. The presentation focused mainly on the progress made about the updating of the Public Administrations Addressing Plan, and the principles that will guide the incorporation of IPv6 to Red SARA.

- MINHAP informed about the status of the GEN6 project to the CP-CSAE (committee that brings together the heads of the ICT departments of the Ministries in the Spanish National Administration) on November, 28th.

4.6 ULFE

- 2nd World IPv6 Congress in Paris - http://www.uppersideconferences.com/v6world2012/v6world2012program_day_two.html.
- PLnog, Warszawa - http://plnog.pl/spotkanie-8-marzec/agenda.

- Regular dissemination of public status of the project over http://go6.si/.
- Co-hosting and co-organization of the RIPE64 meeting in Ljubljana, where several introductions, presentations, discussions and connections related to GEN6 were carried out, April 16 – 20 2012, Ljubljana.
- 3rd Norwegian IPv6 summit in Oslo: Presentation of the GEN6 project along with latest updates on the technological advancements, April 23 – 24, 2012.
- IPv6 congress, Brussels, 25.6.2012 -28.6.2012 http://www.ipv6event.com/; a presentation of the A-ERCS pilot in GEN6.
- RIPE 65 Amsterdam, The Netherlands, 23.9 - 28.9.2012, http://www.ripe.net/ripe/meetings/calendar/ripe-65; work on documents RIPE 501 and RIPE 554.
- EuroNOG, Budapest, 10. – 11-9. 2012, GEN6 represented as part of a keynote.
- RIPE65 meeting in Amsterdam, 24. – 28.9. 2012, topics directly related to GEN6 work.
- GEANT meeting, Helsinki, 3. – 5.10. 2012, GEN6 represented as part of a keynote.
- Living bits and things 2012, Bled, 27.11.2012, presentation and talk titled “Business potential of IoT platform for emergency service”.

4.7 TNO

- TNO presented the GEN6 project to the Dutch IPv6 Task Force on 28 February 2012. The presentation contained the overall goals of the project and the 4 different pilots (online services, public safety, cloud services, cross-border) with a special focus on the Alkmaar pilot and WP5. The attendants were invited to get in touch with the project members during the course of the project if they are interested in one or more aspects of the project. The presentation has been posted in the minutes to the NL IPv6 Task Force mailing list as well, reaching people from over 60 organizations.
- Presentation together with Alkmaar during World IPv6 Launch event in Amsterdam 6th of June (www.ipv6launch.nl).
- Participation in the GEN6 session @ IPv6 World Congress end of June.
- Added the link to GEN6.eu to IPv6 topic-page on TNO.nl http://www.tno.nl/ipv6.

4.8 Citkomm

- Citkomm held a presentation at the network working group forum of German Cities Council on the status of IPv6 in German government. During the presentation GEN6 was presented as the first known project that will result in experiences of transition from existing eGovernment infrastructure and therefore become essential as base for further transition projects.

- Presentation of the GEN6 project on “heise IPv6 Kongress”, leading conference for IPv6, Frankfurt (May).

- Presentation of the GEN6 project at the VITAKO working group “network and system”, Recklinghausen (June).

- Participation in the GEN6 session @ IPv6 World Congress, Brussels (June).

- Introducing GEN6 as part of an overview of IPv6 activities on conference “Neue Verwaltung” (new administration) in Leipzig (May).

- Software Vendor-Workshop for Presentation of German GEN6 Pilot, including an invitation for further integration in the pilot and offers for support in IPv6 enabling for admin-istration business software.

- Project presentation GEN6 in annual Citkomm business report.

- Presentation of GEN6 on an Workshop of ZENIT on 06.12.2012.

- Organizing a Workshop for useful IPv6 address design with large cities in North Rhine Westphalia on 12.11.2012, also presenting expected results from GEN6.

- Presentation on German IPv6 Summit on 29./30.11.2012 on experiences in IPv6 address design for government.

4.9 Fraunhofer

- Together with Citkomm a workshop was organized on May the 21st in Leipzig before the dbb congress to raise the awareness of companies in the area of government end applications, that data centre provider will adopt their networks to IPv6 and that native sup-port of the protocol is one of the tasks they have to face from now on.

- Uwe Kaiser and Jens Tiemann had talks and presentations during the IPv6 Launch Day in conferences (http://www.bel2.net/besucherinfo/was/programm-26042012/index.html) and TV (http://www.dapdvideo.de/panorama-videos/tipps-zum-neuen-

internetstandard-ipv6).

- Participation in the GEN6 session @ IPv6 World Congress, Brussels (June).
- The German IPv6 Summit took place in Potsdam at May 7-8, 2008. Hosted by the Hasso-Plattner-Institute, the German IPv6 Summit provided two days of International, European, and German experts to address IPv6 technology at work. Fraunhofer FOKUS was invited to present the GEN6 project and the European strategy for implementing IPv6 within administrations and governments.

4.10 MINETUR

- Publishing information in our ipv6 dissemination portal: www.ipv6.es Applying for the SITIASLAN 2012 awards sending a descriptive document regarding their IPv6 pilot project and their contribution to GEN6 project.
- Onsite Presentation of our candidature at the SITIASLAN 2012 Fair.
- Dissemination of the GEN6 Project at IPLaunch Day Event.
- Dissemination, using Twitter, of key news about the progress of the project and its supporting technology.
- Presentation of the candidature to the Internet2012 awards (http://www.premiosdeinternet.org/) regarding our IPv6 dissemination portal (www.ipv6.es) and the adaptation of the network infrastructures to IPv6.
- Presentation of the candidature to the Future Internet Awards http://www.cefims.eu/fiaward/ in relation to our ipv6 pilot project.
- Presentation of our national pilot to the attendants to the "MOBILITY 2012. IPv6 and Unified Communications" event held on April, 17th and organised by DINTEL.
- Presentation of the national pilot transition to IPv6 from the Ministry of Industry, Energy and Tourism on the Internet Day events that took place in the Ministry on 17 May.
- Publication of press releases and documents on IPv6 and related activities in our thematic portal: www.ipv6.es.
- Presentation of our project, Implementation of IPv6 in the Ministry of Industry, Energy and Tourism, at asLAN (fair and congress in converged networks and technology) where we were awarded first prize in the category of Central Government.

4.11 Turksat

- Local and national media agencies (totally 252 people have been contacted) have been informed about the project and the on-going work on IPv6 deployment. These are published in various printed and visual media especially in Ankara and İstanbul.
- Several presentations have been made to Parliament State Controlled Entities Commission and to undersecretaries and ministers in related meetings.
- Announcements about the on-going work in project have been submitted to E-government gateway (e-devlet) Facebook and Twitter pages.
- Presentation at the meeting of under secretaries
- A detailed presentation has been made at the meeting of undersecretaries that are involved in the Turkish e-Government projects. 65 high-rank officers from 17 ministries have attended the meeting.
- Presentation at the Committee on Plan and Budget
- A detailed presentation has been made at the annual budget meetings. The MP's were informed about the GEN6 project and ipv6 in general.

4.12 GRNET, CTI and Intelen

- Meeting with SYZEYXIS, the authority responsible for the establishment of the new public sector backbone network (interconnecting 34.000 sites), basic network services (DNS, electronic mail, security, web hosting, etc.) and advance services (e.g. teleconference / collaboration tools, etc.). Presentation about the IPv6 activities in GEN6 (aka plans of other governmental public networks).
- Meeting with Open Government Initiative (National Centre for Public Administration and Local Government - EKDDA) regarding the GEN6 project.
- Initial preparations for GEN6 event in Cyprus in second half 2013.
- Preparation of a web site in Greek/English related to the project (www.grnet.gr).
- The (IPv6-enabled) web based platform for energy awareness / efficiency is under development, targeting to become an educational and social tool for students participating in the national pilot.
- Initial preparations for a dissemination event in Cyprus in 2S2012.

- Preparation for the World IPv6 Congress (Presentation, demo).
- Submission of a full paper in 16th PCI (Panhellenic Conference on Informatics) presenting the objectives and initial plans.
- Plans to present the pilot to the Hellenic IPv6 Task Force (21/6) - Proposal for extensions with other xDSL users.
- Paper submission and presentation about Greek Pilot with exact title "Eco - labelling Greek schools for energy efficiency over IPv6" at conference "16th Panhellenic Conference on Informatics with international participation" (http://pci2012.unipi.gr/) organized by Greek Computer Society, the Department of Informatics and the Department of Digital Systems, of the University of Piraeus on 5 - 7 October 2012. More than 100 participants from various stakeholders, especially universities and government organizations took part in this event.
- Best practices document entitled "Improving Energy Efficiency in Greek Schools with IPv6-enabled Smart Meters", published from the Green Geant Team, within the framework of the GN3 project.

4.13 Gemeente Alkmaar

- On 1 March 2012, the website www.alkmaar.nl became the first Dutch government website rating five IPv6 stars according to the website ip6.nl. The five stars indicate the presence of name-servers with AAAA records, IPv6-only reachable DNS, IPv6 capable mail exchangers, AAAA record for the hostname and an AAAA record for the “www” subdomain.
- Michiel Ettema presented, on behalf of Alkmaar, their activities on IPv6 during an IPv6 seminar for Dutch governments on 10 May 2012. http://new.ipv6-taskforce.nl/ipv6-seminar-voor-overheden/.

4.14 MVČR, MoIT and CZ.NIC

- National leaflet focused on the need and ways, how to switch to IPv6 in public administration. It was printed 1000 copies of this leaflet.
- National GEN6 Web-site (www.nic.cz/gen6).
- Presentation about GEN6 project as well as national activities in this project was given at ISSS Conference (Internet in the public administration and self-administration) on 3rd April 2012 in Hradec Kralove. ISSS Conference is the largest event in the area of eGovernment visited around by 2 000 participants mostly from public administration.

- Press release was published by CZ.NIC at its website and sent to journalists on 26th April 2012. A lot of Internet magazines took over this press release.

- Article on ePractice website (http://www.epractice.eu/en/news/5360371).

- National IPv6 Conference (www.nic.cz/ipv6day) – this conference was attended by more than 200 participants from business (ISP), academia and public administration. GEN6 project was introduced within the presentation "IPv6 in public administration" given by Mr. Jaromir Novak from the Ministry of Industry and Trade.

- CZ.NIC and the Ministry of Industry and Trade presented GEN6 project in the IPv6 Group under ITU (International Telecommunication Union) on 12 June 2012. The presentation (ipv6-pp2010.pdf.zip) and the contribution (itu-gen6.pdf.zip) are available to the project. Please, find the results of the study focused on preparedness of public administration within the contribution and please feel free to involve any part of this document into guidelines and contributions under GEN6 project. I believe, it will be possible to use the results of our study in the measurement part of GEN6 project.

- CZ.NIC arranges two IPv6 transition training courses (one was held in May, the other will be held on 21 June). The Ministry of Industry and Trade made a lot of effort in dissemination of this course between public administrations.

- Monitoring readiness of public administration and IPv6 transition support – deep study focused on implementation IPv6 in public administration was done by CZ.NIC. 245 public bodies in total were involved in this study. You can find results of this study in our press release http://www.nic.cz/page/1062/czech-cities-and-municipalities-lagging-behind-in-implementation-of-ipv6-protocol/. By this occasion – 12 municipalities (Aš, Frenštát pod Radhoštěm, Hodonín, Jihlava, Kladno, Milevsko, Neratovice, Přelouč, Valašské Klobouky, Votice, Vsetín, and Vyškov) in the Czech Republic has decided to join to World IPv6 Launch and implement IPv6 on web services and DNS servers as well. Within the GEN6 project, CZ.NIC provided them a technical assistance. Last, but not least, I would like to highlight the effort done by the Ministry of Industry of Trade (MIT) in IPv6 support. Based on the result of our study, the MIT urged government bodies by letter on high political level. Thanks to this letter, three government organizations have decided to implement IPv6.

- In order to support end users and ensure awareness rising by general public, CZ.NIC association launched "Routers Catalogue" (http://katr.labs.nic.cz/). This catalogue is based on practical tests in our labs. Very good news is, this catalogue is available in English too and it will be our pleasure to share information about IPv6 support by routers and collaborate with other partners on this catalogue.

- National IPv6 Conference www.nic.cz/ipv6day) 6th June 2012, Prague – this conference organized by CZ.NIC was attended by more than 200 participants from business (ISP), academia and public administration. GEN6 project was introduced within the presentation "IPv6 in public ad-ministration" given by Mr. Jaromir Novak from the Ministry of Industry and Trade (MoIT).

- CZ.NIC and the Ministry of Industry and Trade presented GEN6 project in the IPv6 Group under ITU (International Telecommunication Union) on 12 June 2012. The presentation (ipv6-pp2010.pdf.zip) and the contribution (itu-gen6.pdf.zip) are available to the project. Please, find the results of the study focused on preparedness of public administration within the contribution and please feel free to involve any part of this document into guidelines and contributions under GEN6 project. I believe, it will be possible to use the results of our study in the measurement part of GEN6 project.

- Presentation of GEN6 project in "Czech-Taiwan Telecommunication Policy Workshop" in Taipei (Taiwan) was carried-out by CZ.NIC representatives in July 2012. More than 100 participants from various government institutions, including decision makers took a part in this event.

- CZ.NIC arranges IPv6 transition training course on 21 June 2012. The Ministry of Industry and Trade made a lot of effort in dissemination of this course between public administrations.

- Information on GEN6 project has been made available on MVCR web site: http://www.mvcr.cz/clanek/gen6.aspx.

- In order to support end users and ensure awareness rising by general public, CZ.NIC association launched "Routers Catalogue" (http://katr.labs.nic.cz/). This catalogue is based on practical tests in our labs. Very good news is, this catalogue is available in English too and it will be our pleasure to share information about IPv6 support by routers and collaborate with other partners on this catalogue.

- MoIT and CZ.NIC launched the campaign and awareness activities "IPv6: Time is up!" focused on further improving of IPv6 readiness in the Czech Republic.

- Presentation (including GEN6 project) for members of Parliament (Subcommittee for ICT and electronic communication) was carried on 25. October 2012. Based on the presentation and discussion with Parliament members, the Economic Committee of the Czech Parliament adopted on 14. November 2012 a resolution that highlighted the importance of IPv6 for public administration including the necessity to involve IPv6 requirements in public tenders.

- A detailed article with analysis (2 pages) was published on 29. November 2012 in "Veřejná správa" (Public Administration in English) magazine.

- Presentation of GEN6 project within the session "Government: A Pivotal Player in IPv6 Adoption" was made by a representative of CZ.NIC at "ION Conference" organized by Information Society in Sao Paulo (Brazil). More than 150 participants from various stakeholders, especially ISP and government took part in this event.

- State of the art IPv6 readiness status in public administration was published by MoIT on their webpages (in English: http://www.mpo.cz/dokument112838.html). MoIT is planning to publish this analysis at the regular basis.

5. THE ROAD SHOW

GEN6 is planning a road show to disseminate the activities and results. This road show will be organized in the last year, once sensible results are available.

A previous project, 6DEPLOY-2 has organized a similar activity, thru the Spanish partner Consulintel, together with MINETUR and it has been very successful, so it is a possible example of how the GEN6 road show will be organized, of course, considering the GEN6 results and not just a plain "IPv6 training".

The following sections depict a summary of the 6DEPLOY road show and motivation for it, to be used as a starting point for the GEN6 one.

5.1 The Spanish National IPv6 Transition Plan

With the cooperation of 6DEPLOY/6DEPLOY-2, thru the Spanish partner, Consulintel, in several stages since the end of 2010, the Spanish Government has setup a National Transition Plan, by means of the Ministry of Industry, Tourism and Trade (MITYC, Ministerio de Industria, Turismo y Comercio) and the Ministry of Territorial Policy and Public Administration (MPT).

This plan was agreed with the rest of the Ministries and then signed by the Council of Ministers on 29th April 2011[1].

The Plan aims to streamline the integration of Internet Protocol IPv6, responding to the tremendous growth of Internet and promoting technological innovation and deployment of new services in the field of Information Society (strengthening information security and connectivity and facilitating network management).

In summary, the actions in the plan are:

- **Pioneer IPv6 deployment in eGoverment services:** online services of the Ministry of Industry, Tourism and Trade, and the 060 portal (www.060.es).
- **Internet Didactic Portals about IPv6 protocol:** www.ipv6.es and the Electronic Administration Portal (www.administracionelectronica.gob.es).
- **IPv6 training:** one-day workshops and funding within the scope of the "Avanza 2 Plan".
- **Development of public-private cooperation.**
- **Funding in technical projects to deploy IPv6:** "Avanza 2 Plan".
- Complete support of **IPv6 in the ccTLD ".es".**
- Setup of the "**Working Group for the deployment of IPv6**".

[1] http://administracionelectronica.gob.es/recursos/pae_020000697.pdf

- **Deployment of IPv6 in Public Administration.**
- **IPv6 a must in public acquisitions.**
- Follow up of **European and International IPv6 initiatives.**

6DEPLOY/Consulintel contributed to the setup of IPv6 in the MITYC premises, as described in D3.1, provided the contents of the "ipv6.es" portal and the setup of IPv6 in the ccTLD ".es".

Consulintel is also participating in the IPv6 Working Group and working with several other Ministries in different aspects of the plan.

In June 2nd, 2011, Consulintel/6DEPLOY co-organized with the MPT, a workshop for the public administration was organized at the INAP (National Institute of the Public Administration, Instituto Nacional de Administración Pública), attended by all the public administrations across the country with around 200 participants.

In addition to that, in June 9th and 10th, 2011, Consulintel/6DEPLOY co-organized with NIC.ES, part of Red.es, and responsible for the ccTLD ".es", a workshop for the .es registrars, in order to introduce them the IPv6 setup of the ccTLD and encourage the IPv6 deployment at each of the participants premises, with had an attendance of about 60 participants.

A video to present the plan[2] was also arranged and reviewed by Consulintel. Red.es created one additional video[3], interviewing Jordi Palet, from Consulintel.

Finally, 6DEPLOY/Consulintel agreed to provide the speaker, contents, registration, web site logistics, materials and other related details for the national IPv6 Road Show, as described in the following sections.

5.2 The Workshops and the Spanish Road Show

Workshops are one of the main mechanisms used by 6DEPLOY-2 to transfer information and to build collaboration.

6DEPLOY-2 is structured to provide an ideal platform for the discussion of deployment scenarios and the exchange of best practices, thereby avoiding duplication of effort, by preventing the waste of time on techniques that are known not to have been deprecated, and generally making the most efficient use of the available resources in a region. Partners in 6DEPLOY-2 have deployed IPv6 on a production basis in their own NRENs and University networks, and have documented their experiences in Cookbooks and in IETF informational/best common practice RFCs. The manufacturer in the consortium is building IPv6 products.

[2] http://www.tvenred.es/dominios/articles/id/5423/ipv6-spain.html

[3] http://www.tvenred.es/dominios/articles/id/5380/entrevista-jordi-palet-ipv6.html

The workshops are not only intended to lead to an improved quality of the Internet infrastructure in developing countries, but will also raise the competence of the attendees and, in exploiting the personal contacts made through 6DEPLOY-2, facilitate and encourage the participation of their organisations in future FP7 calls and beyond.

Impacts from the workshops will include:

- a positive effect towards preventing the "brain drain" from developing countries by bringing interesting and state-of-the-art activities into these regions, thus making information and knowledge resources accessible to scholars both locally and globally;
- an expansion of the conditions for growth by enabling the exchange of ideas, launching joint experiments and projects, disseminating RTD results, and activating market forces; all of which are substantial elements in the process of regional development;
- making European research and industrial concerns aware of the highly skilled personnel who can contribute to the urgently needed improvement of ICT infrastructures, resulting in an increase of the demand for specialized services provided by the highly skilled academics and researchers of the region; and
- the identification of IPv6 deployment activities in the region and an exchange of information about deployment experiences.

While IPv6 standards and services are quite stable, regional variations in practices and operations will require slightly different approaches for collaboration and dissemination. Therefore, the material for these workshops was collected, and the workshop schedules, formats, and contents were tailored in conjunction with the local organisers so as to suit the type of participants, the subjects to be addressed, the location, the host organisation, the sponsors, etc.

The Spanish Road Show, was advertised in the www.ipv6.es site, 6DEPLOY site, Red.es and a few others. In addition to that it was presented in different foras and a few press releases organized during its progress[4]. It was also disseminated by means of many public entities and thru the databases of different sectors associations.

[4] *http://www.murcia.com/noticias/2011/10/18-facultad-informatica-acoge-jornada-sobre.asp*, *http://www.europapress.es/cantabria/noticia-universidad-cantabria-acoge-jornada-formativa-nuevo-protocolo-internet-ipv6-20110925112942.html*, *http://www.telecinco.es/informativos/tecnologia/UPNA-formativa-proceso-transicion-IPv6_0_1477053254.html*, *http://www.europapress.es/castilla-y-leon/noticia-inteco-desarrolla-leon-jornada-formacion-nuevo-protocolo-internet-ipv6-20110920173457.html*, *http://www.europapress.es/portaltic/sector/noticia-industria-ofrece-formacion-gratuita-protocolo-ipv6-20110916141037.html*.

Red.es arranged a tender in order to support the logistic and graphic image, with the cooperation of 6DEPLOY/Consulintel, and the tenderer was responsible as well of ensuring a minimum participation in each of the 20 events, calling the registered users to remind them to come, etc. The tender was awarded to a Spanish public relations company "Below Group", which was supported by 6DEPLOY/Consulintel in all the stages.

For economy reasons, the events didn't included breaks or lunch, just water was provided, so the participants were on their own. Despite that, in general it can be said that they stayed across the day, which proves the enormous interest in the topic.

The initial target of participants was a minimum of 100 in each of the 20 locations, which was vastly exceeded in the majority of the locations. In fact, as part of the logistic details, one of the requirements for the venues was having a capacity for up to 150 participants in classroom configuration.

One of the main objectives of those workshops was ensuring that the participants not just get a theoretical knowledge, but also practical skills and actually are able to bring their own laptops back to their home or office with IPv6 enabled and being able to make sure that keeps working there.

The Road Show took place in the following cities (autonomic capitals or bigger cities if there is not a match among them, and in some cases several cities/events in the same autonomy) and dates:

- Madrid, 13th September 2011
- Barcelona, 14th September 2011
- Valencia, 16th September 2011
- León, 20th September 2011
- Zaragoza, 23rd September 2011
- Santander, 27th September 2011
- Bilbao, 28th September 2011
- Logroño, 29th September 2011
- Pamplona, 30th September 2011
- Palma de Mallorca, 13th October 2011
- Murcia, 18th October 2011
- Sevilla, 20th October 2011
- Málaga, 21st October 2011
- Las Palmas de Gran Canaria, 3rd November 2011
- Cáceres, 7th November 2011

- Toledo, 22nd November 2011
- Santiago de Compostela, 13th December 2011
- Oviedo, 15th December 2011
- Madrid, 17th January 2012
- Barcelona, 19th January 2012

The web page for the Road Show[5], included information about the target participants (not only engineers at the beginning of the morning, but also looking for decision makers), the timing of the events, the agenda, the Spanish National Plan, links to further information, videos, articles, etc.

The key feature of the page, is an interactive map, where the participants can look for the nearest venue where one of the 20 workshops will take place, click on it, and then pre-register for it.

Jornadas Gratuitas de Formación IPv6

El próximo 13 de Septiembre se inicia en Madrid el ciclo de jornadas teórico-prácticas de formación de IPv6, como parte del plan del Gobierno Español para la transición al nuevo Protocolo de Internet, firmado por el Consejo de Ministros el pasado 29 de Abril.

Este ciclo de jornadas, continuará en Barcelona, Valencia, León, Zaragoza, Santander, Bilbao, Logroño, Pamplona, Badajoz, Palma de Mallorca, Murcia, Sevilla, Málaga, Las Palmas, Toledo, Santiago de Compostela y Oviedo.

IPv6, la nueva versión del protocolo de Internet, viene a resolver el agotamiento de direcciones del protocolo actual, IPv4, y cualquier organización que no planifique con urgencia la incorporación de IPv6 en sus servicios en-línea (páginas web, aplicaciones electrónicas, etc.), podría incurrir en pocos meses, en pérdidas para su negocio al no ser accesible por usuarios de Internet, tanto desde España como desde otros puntos del planeta.

Las jornadas serán impartidas por Jordi Palet, director técnico de Consulintel, reputado experto mundial en IPv6 y autor de numerosos documentos para su estandarización.

Estas jornadas son posibles gracias a la colaboración con el proyecto 6DEPLOY, financiado por la Comisión Europea, en el que participa la empresa Consulintel, dedicado precisamente a ayudar en la formación para el despliegue de IPv6 en todo el mundo.

¿Quién debe participar?
Las jornadas están orientadas tanto a ejecutivos de todo tipo de empresas, dado que es imprescindible que asuman la importancia de desplegar IPv6 y las implicaciones para su negocio en caso de no hacerlo, como a administradores de redes y sistemas, así como desarrolladores de aplicaciones.

Figure 5-1: The Road Show website

[5] http://www.6deploy.eu/workshops2/eventos-ipv6.php

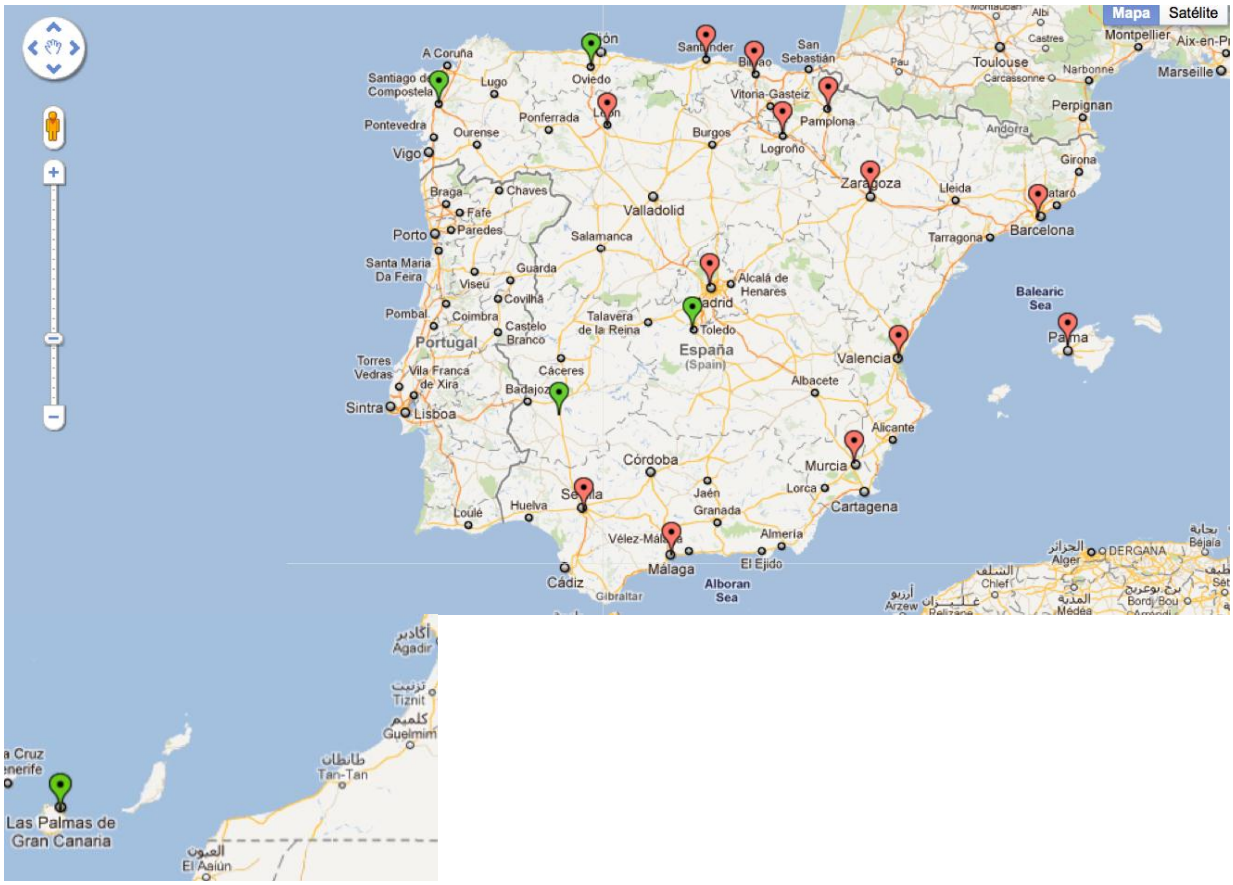

Figure 5-2: The Road Show Map (end of October 2011)

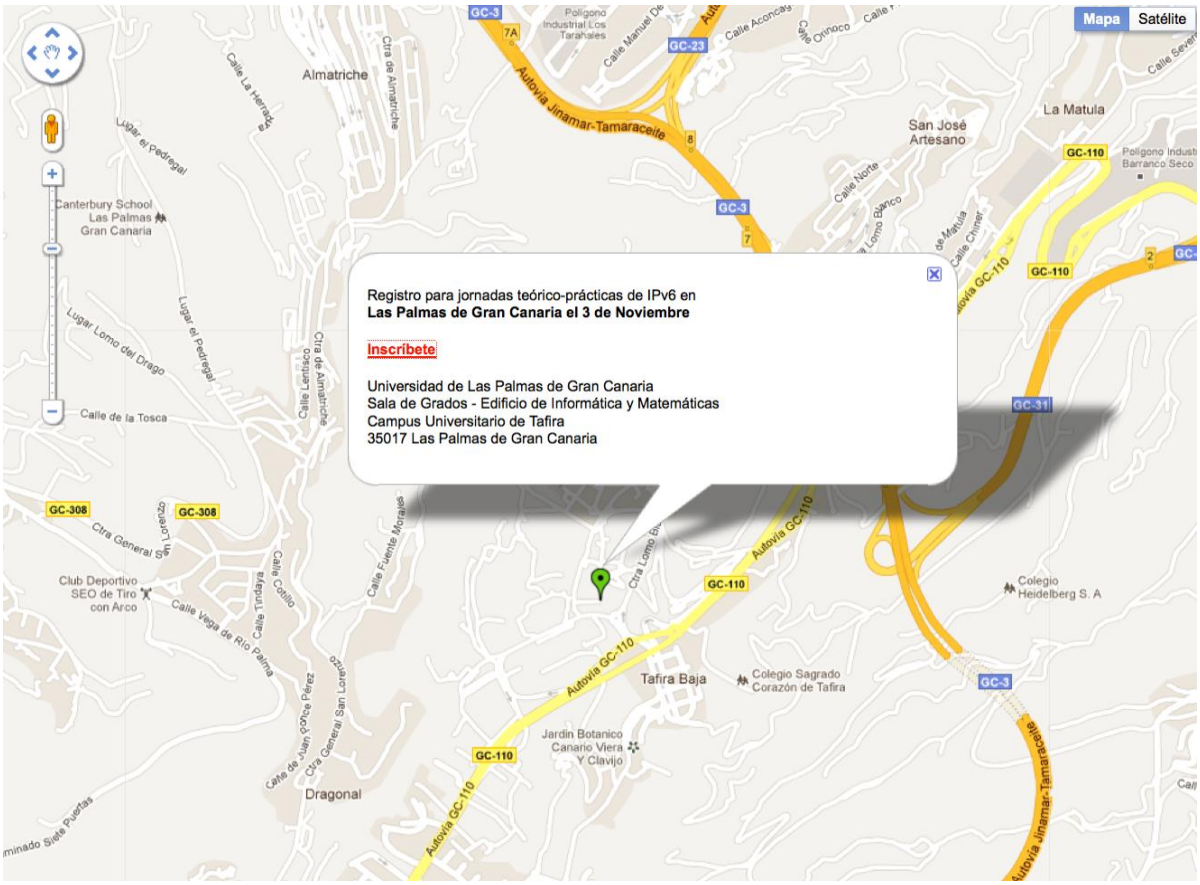

Figure 5-3: "Choose your Venue" Feature

Registro para jornadas teórico-prácticas de IPv6

Las Palmas de Gran Canaria, 3 de Noviembre

Seleccione un evento...
Badajoz, 7 de Noviembre
Las Palmas de Gran Canaria, 3 de Noviembre
Oviedo, 15 de Diciembre
Santiago de Compostela, 13 de Diciembre
Toledo, 22 de Noviembre

previo.

Sr.

Nombre:
Apellidos:
Organización:
Cargo:
Dirección:
Código Postal:
Ciudad:
Provincia:
País:
Teléfono:
Email:

Teclee los números que vea en la siguiente imagen:

Enviar Borrar

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Figure 5-4: Registration Page, once the Venue is Chosen

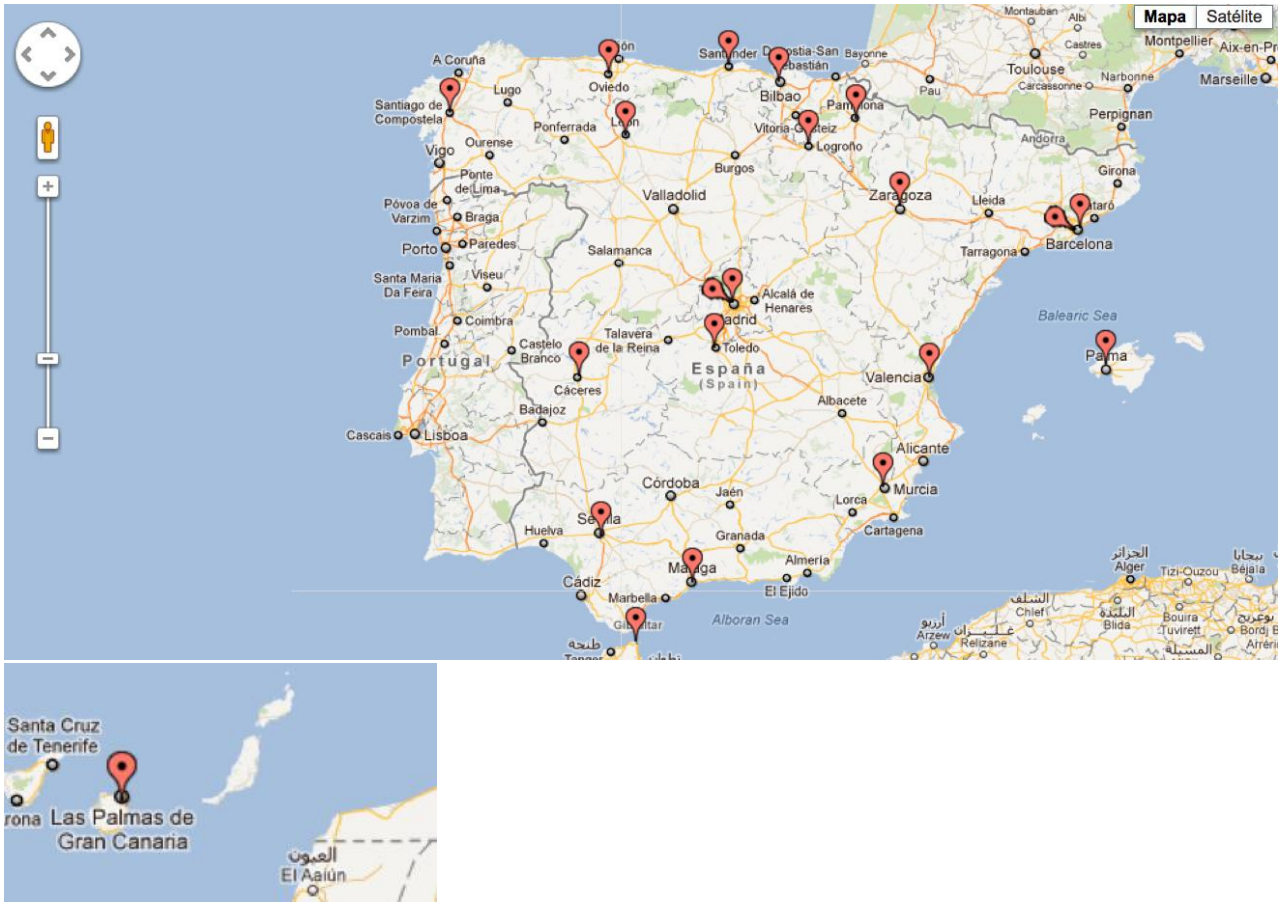


Figure 5-5: The Road Show Map (end of January 2012)

Once each specific workshop date approaches, then a confirmation email with additional details was sent by 6DEPLOY. At this was y possible to control a possible overbooking situation and if too many participants of the same organization are willing to participate, but that means other entities will not be present, agree a maximum number of participants per each entity. It has not been the case, however it was very close to that in several venues and it was necessary to organize 2 workshops in Madrid and Barcelona, cancelling venues that were too small and not having sufficient registration and close to other venues so participants in those regions can still participate.

The email was also asking the participants, in case they can't come, to confirm that situation, in order to free that "seat" for other possible participants. Phone calls were organized as well by the PR agency in order to ensure the participation.

One of the workshops was recorded in video and the videos have been made available in a specific web page[6], also publicized in different sites, including www.ipv6.es as well as by means of the email sent to all the registered people of each workshop, after it, to remind them to fill in the satisfaction survey.

Vídeos de las Jornadas Gratuitas de Formación IPv6

Durante la Jornada realizada en la Universidad de Valencia, el 16 de Septiembre de 2011, se procedió a grabarla en vídeo.
Dicho video ha sido dividido en varias partes para facilitar su visualización.

Parte 1

Parte 2

[6] http://www.6deploy.eu/workshops2/videos-ipv6.php

Figure 5-6: Videos Webpage

Each of the events had also a specific web page, within the workshops section of the 6DEPLOY site, including all the event details, the link to the satisfaction survey, the documents used during the event, and the logos of the hosting venue/organization.

Figure 5-7: Workshop Webpage Example

Finally, 6DEPLOY/Consulintel also developed an application, under request from participants of the first events (typically to justify their absence from the working place during the event), in order to be able to email an attendance certificate to the participants that actually come to each of the workshops and confirm their presence at the registration desk.

CERTIFICADO DE ASISTENCIA

de 09:30 a 18:30

Otorgado a favor de D/Da. **Ivan Montejano Rodriguez**, por su participación como asistente en la sesión:

"JORNADA TEÓRICO-PRÁCTICA DE FORMACIÓN SOBRE IPv6"

Celebrado en Oviedo, el 15-12-2011, de 09:30 a 18:30 horas.

Y para que conste, a los efectos oportunos, se expide este certificado en

Madrid, a 26 de Octubre de 2011

Fdo.: Jordi Palet
Director técnico de Consulintel

Figure 5-8: Example of Attendance Certificate

5.3 The Workshops Details

The following paragraphs provide information about the workshops, including the programme outline, the network, and the material that was presented.

5.3.1 Overview & Agenda

The 6DEPLOY-2 speaker at the twenty workshops was Jordi Palet, from Consulintel.

The agenda was defined by 6DEPLOY. An introduction to IPv6 was given. Specific IPv6 material was presented, including an introduction to basic IPv6, concepts on the transition and coexistence of IPv4 and IPv6, as well as different transition mechanisms and IPv6 DNS.

The presentations were conducted in Spanish, in order to accommodate the local audience.

The events took place in every venue from 8:30 (starting with the registration), to 18:30, with two 30' coffee breaks (one in the morning, one in the afternoon) and one lunch break (1 hour). The complete agenda was the following:

- 1st part (2 hours) for decision makers and engineers
    - Spanish Government plan

  - 6DEPLOY introduction and how it can help
  - The IPv4 exhaustion
  - Impact in business
  - Problems generated by translating addresses
  - Non technical introduction to IPv6 and differences with IPv4
  - Why you should plan the transition to IPv6 NOW
  - Overall steps in the planning and cost
  - Innovation with IPv6

- 2nd part (5 hours) for engineers, theoretical and practical sessions
  - Technical details of IPv6
  - Key points: Why you shouldn't deploy IPv6 the same way as IPv4
  - Hands-on with hosts
  - Transition and Coexistence: Why not migration
  - Hands-on: transition mechanisms

5.3.2 Network Details

One of the first issues was ensuring adequate network infrastructure for the participants to be able to actually do IPv6 hands-on in the venue network.

6DEPLOY/Consulintel suggested that instead of doing it in hotels, which probably will be more expensive and impossible to obtain public IPv4 addresses (for the transition exercises), native or tunnelled IPv6, adequate WiFi coverage and bandwidth, they should be arranged in Universities.

This idea provides also a secondary objective as part of the Road Show: As many of the Spanish universities don't have IPv6 setup in their networks, even while all them area connected to RedIRIS (the Spanish NREN), which has proper IPv6 connectivity and deployment since many years ago.

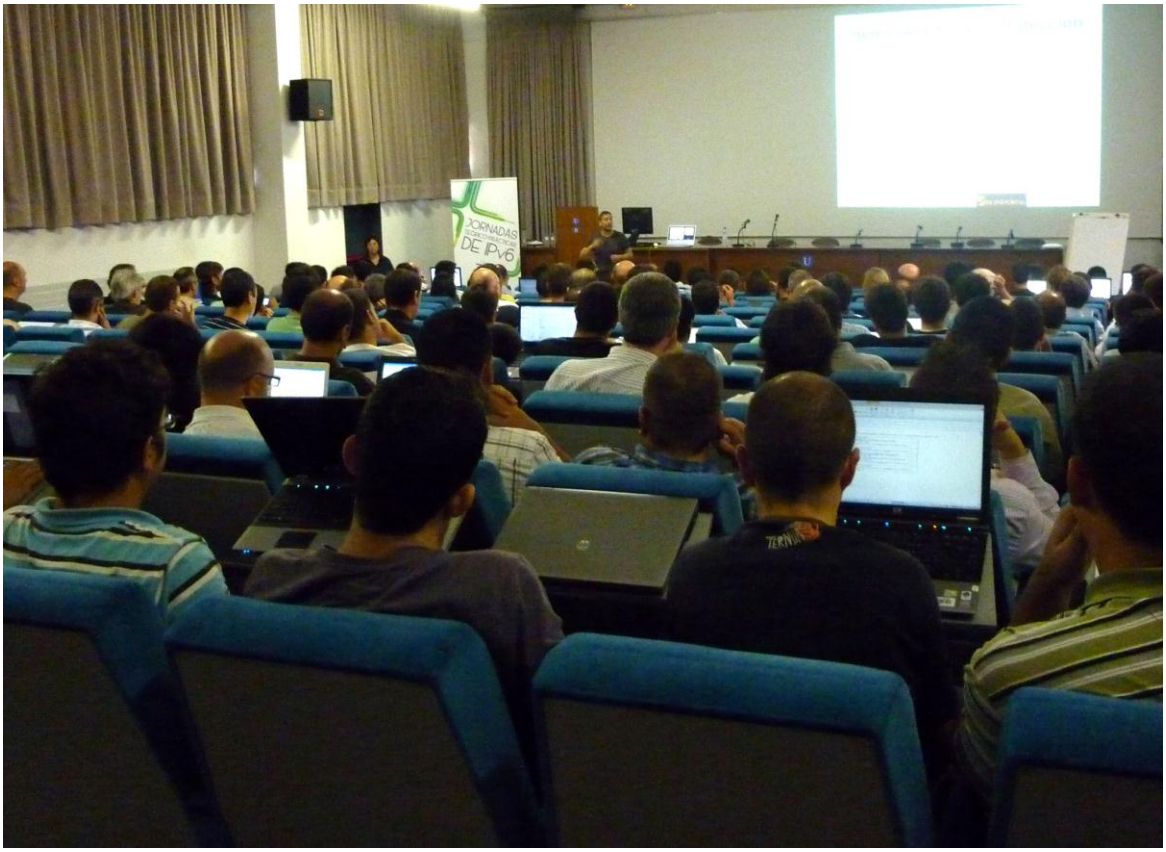
So it was agreed with RedIRIS to provide the contacts of each of the universities and 6DEPLOY/Consulintel worked with the technical contacts in order to, as much as possible,

encourage and support them to setup IPv6 for the event, as a way to acquire the knowledge to extend this setup to the rest of the network. The university staff was also invited to participate in the workshop, and actually many of them actually did.

In many cases it was necessary to extend the wireless capacities and the electricity network in the meeting room.

5.3.3 Pictures

The following are pictures from some of the events.




Formato comprimido: FF01:0:0:0:0:0:0:43
se comprime como: FF01::43
Compatible IPv4: 0:0:0:0:0:0:13.1.68.3
o ::13.1.68.3
IPv4-mapped: ::FFFF:13.1.68.3
URL: http://[FF01::43]:80/ind
JORNADAS DE IPv6


Plano de Control IPv4 vs. IPv6
Plano de Control IPv4 vs. IPv6
JORNADAS DE IPv6


Ventajas Adicionales con el Nuevo Despliegue
• Oportunidad para eliminar parte de la complejidad, ejemplo en la cabecera IP
JORNADAS DE IPv6
UNIVERSIDAD DE MÁLAGA

Figure 5-9: Pictures of the Road Show

5.3.4 Attendees

Due to the high volume of participants, this document doesn't provide a list of them, but only summary data.

Event	Registered	Participated
Madrid	261	167
Barcelona	207	131
Valencia	118	75
León	105	75
Zaragoza	243	166
Santander	137	105
Bilbao	161	107
Logroño	126	88
Pamplona	143	114
Palma	85	59
Murcia	170	111
Sevilla	238	121
Málaga	192	119
Las Palmas	250	142
Cáceres	138	88
Toledo	70	52
Santiago	195	107
Oviedo	124	51
Madrid	307	204
Barcelona	188	131
Totals	**3.458**	**2.213**

Table 5-1: Road Show Attendance Summary

The participants represented a broad range of the ICT community (public and private sectors). They were both non-technical (early in the morning) and technical people whose knowledge about IPv6 ranged from almost no knowledge at all to having some concepts but typically no experience with IPv6 deployment. Some had already performed IPv6 experiments or were planning some level of deployment at their institutions.

5.3.5 Presentation material

The 6DEPLOY material was adapted and translated to Spanish to match the Road Show targets. New material was also developed.

Modules
Introducción a las Jornadas: Plan del Gobierno
Introducción a 6DEPLOY, partners y Consulintel
El Agotamiento de IPv6 e impacto en los negocios
Introducción a IPv6 y diferencias con IPv4

Detalles técnicos básicos de IPv6
Practicas con hosts
Mecanismos de transición
Practicas de transición

Table 5-2: Road Show Material/Topics

5.3.6 Analysis of the Feedback Questionnaires

A questionnaire has been specially designed for the purpose of getting feedback from the participants regarding the suitability of the course material, the presenters´ ability to convey information, and the relevance of the information to the expectations of the attendees.

In general, we can say that the perception of the participants has been 99,99% **extremely positive about the Road Show**, even the expectation was to have more hands-on, but it is understood by the participants considering the mixed audience, different levels and profiles of the participants, available time, and size of the groups.

It is important to clarify as well, that the last part of the agenda (transition hands-on) was considered a backup in case of time was available (if one of the groups have already IPv6 skills that allow to skip some sections), which never happened. So some of the responses may be biased if this is not considered in the survey analysis.

Personal information was not mandatory, so as to allow for anonymous responses.

Each participant was first asked to indicate:

- his/her organisation and job responsibilities,
- how he/she got the information about the event,
- actual usage of IPv6 in his/her organisation, and
- his/her plans for IPv6 deployment in his/her organisation.

Then, for each theoretical presentation and “hands-on” session, each participant was requested to assess “usefulness”, “quality of presentation” and “familiarity with the topic”.

Finally, a question about the “general organisation” details and “will you recommend this workshop to your colleagues”.

Then the participants can respond with free text to questions such as “what other topics you will like to heard more/less” and “other comments”.

Each of the workshops had its own survey, annexed at the end of this deliverable, in order to be able to have a detailed view for each one.

5.3.7 Impact & Opportunities for Further Co-operation

In addition to the participants in the events, the information and documents have been widely disseminated. In fact, there have been over 83.000 downloads.

We have also observed an increase of the level of deployment in IPv6 in Spain, in part because the overall Government plan and the meetings that the MITYC held with most of the bigger ISPs. Indeed, all them have already IPv6 deployment plans and we even expect some IPv6 services available in the first quarter of 2012.

The same is true, even with a lower degree at the time being, clearly impacted by the economical recession, in the private sectors, all sizes/kinds of organizations, even it is already clear that some big financial and multinational Spanish institutions are already paying attention to IPv6 now.

In all the workshops, the attendees were informed on how to stay in contact with the 6DEPLOY partners in case they have questions regarding IPv6 deployment, addressing plans, etc. In this respect, the role of the *helpdesk* was explained as being the way to submit questions. An email to helpdesk@6deploy.eu will be distributed to a mailing list composed of volunteers who are available to answer (or forward) any kind of questions, requests, etc. Also a web form can be used to send requests to the project. Indeed several hundreds of emails have been replied already in Spanish to the participants of the workshops, which have been addressed directly to the presenter.

Additionally, the attendees (and trainers from the region) can follow the e-learning course and/or check the availability of the 6DEPLOY remote labs and use these.

6. USAGE PLANS

The GEN6 project partners have exploitation plans for the different project activities, which are summarized below for each participant.

6.1 Devoteam

The results of the GEN6 project will improve Devoteam's capabilities to support the German government in the transition of government infrastructures to IPv6. Moreover the lessons learned from the project shall enable Devoteam to offer consulting services to its customers in the public administration as well as in the private industry to speed up and facilitate their IPv6 migration. Devoteam shall present first project results on the German IPv6 Congress in Frankfurt.

6.2 Consulintel

The IPv6 expertise of Consulintel, and the new knowledge acquired thru this project, will increase Consulintel capacities to provide related services to the private and public sectors, including training, consultancy and deployment among others, and will increase the company visibility to possible customers across Europe and other territories.

Consulintel is already working with several operators and governments, which are already deploying IPv6, so the expertise acquired in the project will be very helpful to further develop related solutions.

In addition to that, we are involved in different IPv6 awareness and training activities, so the project work and results can be further disseminated and this can be considered as one more exploitation mean.

Finally, our activities include also a close follow up and contribution to IETF and other standardizations fora, including the ETSI Specialists Task Forces.

6.3 Tubitak Ulakbim

The result of the project will cause the smooth IPv6 transition Turkish eGovernment services. TURKSAT is serving as an Internet Service provider to its cable TV customers. TURKSAT will use the knowledge to be gained to make their ISP services IPv6 ready. ULAKBIM is in a leading position on IPv6 transition in Turkey. The realization of GEN6 objectives will even support ULAKBIM’s current role in the country as a leading actor.

GEN6 project has been an accelerative force for Turkey eGovernment Gateway to be made IPv6

enabled. Through the project three selected governmental institutions are planned to make IPv6 connection to EGG. Leveraging the project results, other governmental institutions will also connect to EGG over IPv6. Moreover, the experience gained throughout the project will be used to prepare best practice documents, IPv6 deployment guides and security cookbooks. Furthermore, institutions in Turkey pilot may use the project experience by participating in other European projects.

6.4 UMU

UMU as academic & research centre will disseminate results of GEN6 due articles and conference papers and also will use the good-practice and guideline generated as part of the academic activities in order to present students up-to-day applicability of IPv6 for their future development in the industries and enterprises. Additionally it will be an opportunity for UMU to present his expertise to the stakeholders and especially to administration of Spain our knowledge and activities in IPv6 area in order to possible generate future collaboration activities.

6.5 UL

The outcome and lessons learnt from this project will empower and advance the University of Luxembourg with its interdisciplinary center SnT and its governmental stakeholders from a Luxembourg cluster in providing a Public Safety and Cloud Computing recommendations This open platform is an ideal facility for infrastructure, services and new enabling concepts in a small, vendor neutral, and cross boarder environment.

Together with key stakeholders such as the Centre de Communications du Gouvernement Luxembourg , Ministry of State and LuxCloud, UL/SnT has defined a strategic research agenda driven by a scientifically very strong group of faculty and researchers formed around a number of interdisciplinary research platforms that provide application area focus and long term direction. Strong links have been established with external partners to define and launch research projects with relevance to the community. UL/SnT has set as one of its key focal areas, the Future Internet Public Private Partnership launched by the European Commission, where it intends to be a key player offering, security and trust expertise, security test beds and large scale citywide test beds.

The results of the project will generate new research scopes and opportunities for the cooperation with wider stakeholder communities in the government and safety fields, contributing to a sustainable partnership never experience before in facilitating hands-on-driven research work and winning top class researchers in areas such as the Safety networking, Internet of Things, SmartGrids and Cloud computing and their respective security work with the imminent adoption of the new Internet Protocol version 6 (IPv6).

6.6 Citkomm

The outcome and lessons learnt from the GEN6 project will enable Citkomm as a service provider for regional and local government authorities to speed up the process of IPv6 introduction and to support the transmission by concepts, guidelines and skills. Introduction of new technology is always a critical process but for government authorities this is crucial. For authorities network is almost transparent but will their applications still work? Besides the network aspect of this project Citkomm will explore the IPv6 readiness of common applications like browser and database applications as well as special government applications of their customers.

As an early adapter of IPv6 and a completely dual-stack infrastructure at the end Citkomm will be in a leading position with respect to IPv6 data center services for administrations in Germany. Being member of the interest group Vitako, a society of regional data center provider, will be able to spread the results widely and offer practical advice.

Furthermore the results will enable Citkomm to address (upcoming) topics in networking like mobile IP or Cloud Computing for the government sector. With a complete infrastructure in operation both institutions will be able to investigate into security aspects like traceability of user and/or devices (privacy extensions) and how to fulfil privacy requirements in a new network environment.

6.7 Fraunhofer

As a research institute Fraunhofer FOKUS will use the results from Gen6 in different ways. One mandate is to transfer results from research to small and medium business. As those are currently more or less in the same position as governments and local administrations the steps from motivation, to planning and deployment can be used to encourage the introduction of IPv6. As Fraunhofer is a large organization with more than 50 institutes the experience gained from the own way to IPv6, the results from GEN6 and specially the outcome from the university best practices can be used for internal education of the Fraunhofer society. As FOKUS is also engaged in the national activities in Germany to IPv6 transition the results and experience from other national pilots will serve as motivation and best practices and will find its way back to the national documentation, especially into the Transition guidelines and. Most important here will be how to avoid pitfalls during the implementation process of IPv6.

The results of national activities together with the European approach of GEN6 will be part of a series of presentations e.g. the CeBIT fair (March), the German IPv6 congress in Frankfurt (June) and the national IT Board.

Furthermore FOKUS is member of the IPv6 working group so all publically released deliverables

are immediately available to all level of government/administration in Germany.

6.8 GRNET

Based on the results of the GEN6 project, best practices for the deployment of IPv6 services will be disseminated to the academic and research community in Greece as well as in the public sector networks.

Expansion of the Greek pilot may be applied in the Greek universities, targeting at the reduction of their daily energy consumption through the establishment of end-to-end IPv6 smart metering infrastructure.

Innovative techniques proposed within the project will be exploited for the support of IPv6 in the GRNET cloud computing services and the provision of guidelines to GRNET customers for their transition to IPv6.

Collaboration with the Greek public authorities will be also established based on the project results, targeting at the fastest adoption of IPv6 combined with the proper training of the personnel.

The message that “IPv6 can be a green enabler” will be incorporated within the GRNET’s environmental policy, while the exploitation of IPv6 characteristics in the fields of smart sensor networking (6LoWPan), autonomic networking and Smart Grid networks will be pursued.

6.9 CTI

The results of the GEN6 project will improve CTI's capabilities to support the Greek School Network for enhancing existing IPv6 services or providing new services to the end users, over IPv6. Moreover the lessons learned from the project shall enable CTI to offer consulting services to its customers in the government sector to speed up and facilitate their IPv6 migration. CTI shall present first project results on the Greek student community as well as investigate the benefits of establishing an advanced metering infrastructure over IPv4 and IPv6 and provide insights about the benefits of building IPv6 services. The Greek IPv6 pilot, upon successful implementation and dissemination of the results, may constitute a point of reference for wide scale deployment of IPv6 services in the Greek public sector infrastructures, either for networking or cloud computing ones. The Greek School Network pilot will also result into significant energy savings for the participating schools, by providing real-time energy consumption information to the students, raising their energy awareness, and motivating behavioural changes. It may also motivate the Greek government to extend this service to more government buildings, both in the educational and the general administration sectors. There is also a probability of high influence in private sector infrastructures. Last but not least, the IPv6 expertise of CTI, and the new knowledge acquired through this project will be carried out

within the schools as well as in the wider community will motivate the establishment of a strong collaboration framework between the ICT sector, the smart building & automation vendors and public authorities. Finally, CTI as a leader IPv6 stakeholder will participate in new research scopes in areas such Safety networking, Internet of Things, SmartGrids and Cloud computing with the imminent adoption of the new Internet Protocol version 6 (IPv6).

6.10 Intelen

Intelen will use GEN6 results in Europe and USA, regarding the applications of Internet of Things - IoT in the energy and smart grid sector. Intelen already uses IPv6 technology in energy meters and sensors and adapts the cloud SaaS/IaaS middleware and software towards this direction.

The impact of IPv6 to the smart grid market will be exploited by applying relevant techniques for energy efficiency in big buildings and electric vehicles. The output of GEN6 project will help Intelen build a modern data analytics system based on IoT approach and apply modern algorithms for energy analysis in a peer2peer level.

Intelen prepares dissemination of GEN6 results to some high level EU events and round tables regarding smart grid (ESMIG) and to relevant events in the US market (Networked Grid 2013, LA), where Intelen is sponsor and will start deploying services to specific States, by April 2013.

6.11 Turksat

Turksat operates the national e-government gateway. The gateway web application and the database system has been updated to allow access from IPv6 addresses and took a part at the IPv6 World Launch day. The pilot institutions; Social Security Institution (SGK) and Turkish Post (PTT) were connected to the gateway over a new fiber connection. In order to guarantee compatibility and continuous operation of the system, R&D of the “Public Services Integration Box”, a custom hardware solution, which is designed to simplify integration to the e-Government gateway, has begun. The integration box is designed to support IPv6 connections between institutions and the e-Government Gateway.

6.12 MVČR

MVCR will exploit the results of IPv6 internally as it develops and operates a number of information systems and infrastructures supporting the national policies and legislation in the competence of the ministry (for example, public administration reform and organization, ICT policy and e-government, public order, police and fire brigade). GEN6 results will be further communicated and forwarded within the coordinating and cooperating expert networks concerned with regional (e.g. Association of Regions) and municipal (self-) governments (e.g. Association of Towns and Municipalities) in order to support related ICT projects and services.

6.13 MoIT

The MoIT is continuously monitoring the fulfilment of the government resolution no. 727/2009 about the transition to IPv6 protocol, informing about its results on the web page of MoIT www.mpo.cz.

MoIT is also committed to continue monitoring the situation in implementing of IPv6 within the government institutions according to the national strategy Digital Czech v. 2.0 (this strategy was prepared by MoIT and will be transmitted to the Government for its approval in 2Q 2013).

MoIT wants to reach better results in implementing of IPv6 by sending notices to the government institutions, which are not fulfilling the government resolution no. 727/2009. Based on these notices we can see high improvement in implementation of IPv6 within government institutions.

The MoIT is also preparing a report for the government about state of play of IPv6 deployment.

The MoIT is planning together with CZ.NIC to strength communication with various stakeholders, including policy makers.

MoIT is planning to disseminate IPv6 deployment within international organisations, e.g. OECD and its ICCP Committee.

6.14 CZ.NIC

CZ.NIC is planning to disseminate especially the results of IPv6 readiness benchmarking study. As key events in 2013, we consider the Digital Agenda Assembly (2013, 2014), ICT 2013: Create, Connect, Grow in Vilnius (2013) and eGovernment conferences. There is also planned to continue in cooperation with Information Society during ION events. At the national level, together with MoIT we are planning to strength communication with various stakeholders, including policy makers. From national media, we are planning to publish new information about GEN6 projects in its results in Verejna sprava (Public Administration) magazine, Lupa.cz (the most important magazine in ICT area) or eGov.cz.

7. CONCLUSIONS

The plan for usage and dissemination of the project knowledge provides an overall view of the project and partners expectative on this regard.

The project web site, which has been running since month three, is one of the main initial assets, and provides already a global view of the project objectives, deliverables being produced, news from the project and means for contacting the project partners.

However, this document also summarizes very relevant aspects to be developed by the project partners, such as internal dissemination activities, papers and publications, overall dissemination activities and an earlier view of the partner's exploitation plans.