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Abstract:

This deliverable provides the plans of dissemination activities planned in the framework of the Eurov6 Showcase project. It addresses the dissemination within partner groups, IST cluster, Fora, interop events, other related organizations or entities (IPv6 Forum, IPv6 Task Force, etc...), conferences and workshops, publications and liaison to national activities and user groups. The project also has plans to interact at international level with different sponsoring and supporting organizations such as the Japanese IPv6 Promotion Council and European National IPv6 showcase initiatives.

Keywords:

Co-operation Agreement, IPv6, Promotion Council, Showcase.

Revision History

The following table describes the main changes done in the document since it was created. All the names listed ordered alphabetically by Partner name, then Family name.

Revision	Date	Description	Author (Organization)
v1.0	20/09/2002	Document creation	Sathya Rao (Telscom)
v1.1	01/10/2002	Document edited with contents	Sathya Rao (Telscom)
v1.2	19/10/2002	Peer review and small corrections	Paul Van Binst (ULB)
v1.3	27/10/2002	Small template updates and minor corrections	Jordi Palet (Consulintel)

Executive Summary

This deliverable presents the dissemination activities planned in the framework of the Eurov6 Showcase project. It addresses the dissemination within partner groups, IST cluster, Fora, interop events, other related organizations or entities (IPv6 Forum, IPv6 Task Force, etc...), conferences and workshops, publications and liaison to national activities and user groups. The project also has plans to interact at international level with different sponsoring and supporting organizations such as the Japanese IPv6 Promotion Council and European National IPv6 showcase initiatives.

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1. INTRODUCTION

The principal objective of the Eurov6 project is to show the usage of IPv6 products and services and their impact to anyone at anytime, to create awareness of IPv6 among the users.

For this purpose, the following actions have to be performed:

- Bringing together vendors as sponsors to test and demonstrate their devices and systems.
- Showing various users applications based on IPv6 products and services, permanently at a few locations in Europe ("fixed showcase"), which can be visited physically or accessed remotely through telematic means.
- Organizing temporary demonstrations at different locations and /or significant events like INTEROP (concept of "nomadic Showcase").

The Eurov6 Showcase will obtain sponsoring of organisations who have the commercial and beta prototype network components, devices and applications for building a Showcase, in order to show the users all functionalities, features and benefits, in such a way that entrepreneurs identify major investment potentialities to reap the benefits and also to contribute towards developing a healthy information society.

The Eurov6 project, with its permanent test-bed/demonstration centres in Basel, Brussels and Madrid interconnected to other IPv6 initiatives and experiments through 6NET, Euro6IX, GEANT and other national networks will allow the user community to experiment and trial their new applications, network and protocol features. This facilitates the promotion of IPv6 technology with its rich features to all interested parties and in particular to policy makers, political leaders and industrial strategists.

The Eurov6 Showcase will also be presented as a portable packaged unit, so that the project can move the IPv6 technology package to as many events as possible (INTEROP, others) to show the European competence to the public at large.

2. RELATION WITH OTHER PROJECTS

2.1 IST projects

Project	Website	Activities
6WINIT	www.6winit.org	Mobile IPv6 internet: WLAN, GPRS, UMTS
6NET	www.6net.org	Native IPv6 pan-European NREN network
6LINK	www.6link.org	IPv6 Cluster facilitator
Euro6IX	www.euro6ix.net	Pre-commercial Telco supported IPv6 network Madrid Eurov6 Showcase venue
NGNLab	www.ngnlab.org	IPv6 test-bed: Brussels and Basel: Eurov6Showcase venues
MobyDick	www-int.berkom.de/~mobydick/	Fixed mobile networking and AAA functionality
ANDROID	www.cs.ucl.ac.uk/research/android	Agent technologies and IPv6
LONG	long.ccaba.upc.es	IPv6 test-bed and MM applications
GCAP	www.laas.fr/GCAP	Middleware technologies
MIND	www.ist-mind.org	Micro and Macro mobility in IPv6
NGNI	www.ngni.org	NGN project cluster
Tsunami	www.eurescom.de	Eurescom IPv6 project
GTPv6	www.ipv6.ac.uk/gtpv6/	Test group in GEANT
IPv6 TF-SC	www.ipv6-tfsc.org	IPv6 Task Force Steering Committee
6POWER	www.6power.org	Power Line communication, broadband and IPv6
6QM	www.6qm.org	IPv6 and QoS Measurement

3. LIAISONS

Liaison is part of visibility to be created among the peer projects and initiatives. Several levels of liaisons are considered in the project ranging from project, cluster, fora, industry, standard groups (IETF, RIPE and others), National and European initiatives (e.g. NRENs, IPv6 Task Forces, etc.). These liaisons are used for exchange of information of mutual interest, organization of events, contribution towards standards and common specifications. It is expected that the Eurov6 project can use the 6LINK project as a means to feed project results to the wider community, as well as the IPv6 Cluster through their newsletter.

3.1 Japanese IPv6 Promotion Council

The IPv6 Promotion Council of Japan was established in October 2000. The members are from various business fields: Carriers, ISPs, hardware vendors, and software vendors. The working groups of IPv6PC include Network WG, Security WG, Certification WG, Global Strategy WG, Address Policy WG, and Base System WG. The council is the most active and influential IPv6 organization in Japan, and is the formal contact point appointed by the government office in charge of handling requests from overseas private IPv6 promotion bodies, such as the IPv6 Task Force, for technical and deployment cooperation.

The council conducted many IPv6 deployment activities in 2001 and 2002:

- Demonstration program of home IPv6 appliances.
- IPv6 showroom, “Galleria v6” (Tokyo and Osaka).
- Various IPv6 service proposals at exhibitions.
- 1st IPv6 Internet live concert in history (December 2001).
- Internet access service trial on the Narita Express trains (East Japan Railway Company) via WLAN/IMT2000 and in the Narita International Airport via WLAN (from May to July, 2002).
- Digital Video streaming project using IPv6 DVTS (Digital Video Transmission System) in national high school baseball championship games (August 2002).
- Global cooperation: Participation in the “Global IPv6 Summit in China”, holding IPv6 ad-hoc meeting with Korea, and collaboration with European Commission IPv6 Task Force.
- “IPv6 seminar” for businesses and individuals.

The future will emphasize four important activities in 2002 to 2003:

1. Global cooperation

- Support for deploying IPv6 technology and IPv6 applications in Asia.
- Test-bed construction to cover and to cooperate with EU, Asia, and the US.
- Proposal regarding practical use of IPv6 address policy.
- Security
- Security model construction for the ubiquitous Internet.
- Study on minimum-security level as social infrastructure and on security technologies to realize the minimum.

2. Certification
- Study and research on performance test methods for IPv6 appliances.

3. IPv6 application expansion
- To city planning and the Internet ITS (Intelligent Transport Systems).
- To human welfare, healthcare, education, etc.

3.2 "IPv6 Show Case" Project of T-Systems Nova

Since March 2002 T-Systems Nova is operating a German-wide IPv6 Show Case by order of the Innovations management department of Deutsche Telekom. This IPv6 Show Case is a public user trial, where T-Systems offers a native production-like IPv6 network service to interested customers and research institutes.

In a first step this Show Case will be open until September 2002 and a further prolongation is still under investigation by Deutsche Telekom.

The Show Case network consists of three major IPv6 POPs which are connected by WDM-links and where the customers will be attached using mainly IPv6-in-IPv4 tunnel mechanisms.

The main objective for this activity of Deutsche Telekom is to send a signal to the market that IPv6 is ready and that Deutsche Telekom has the knowledge to provide its customers with this technology. Besides that, this Show Case shall give the early test customers the possibility to get in touch with this new network technology and to gather their own experiences within scheduled trials and test events.

After the setting up of the BER6IX Euro6IX IX in Berlin the Show Case network will be attached to this POP and serve as one ISP or customer of the Euro6IX network, providing its partners with European-wide native IPv6 connectivity and hence to Eurov6 showcases.

3.3 IPv6 Cluster

There are a number of IPv6-related projects which are already active in researching IPv6 technology-related issues and that are promoting the cause and importance of IPv6 as a new protocol to make the next generation internet a commercial success in Europe. The activities are aimed at demonstrating the applications across IPv6 networks taking into account real user needs, developing appropriate solutions. The awareness of available standards and products is an important issue in the evolution of future networks. One mechanism that will be used to promote IPv6 among industry, research institutions, vendors and user groups is the Concertation process at the level of IST projects. Since the Concertation meetings include most of the relevant players, it is important to use that platform. Through this platform close links will be established with ETSI (IPv6 Plugtests), the IPv6 Forum (awareness creation through participation in summits, and participation in technical directorate meetings), IETF WGs related to IPv6 (ngtrans and IPng) and NGN WGs of ETSI and ITU to promote IPv6 at the highest possible level of standardization and framework. The successful deployment of these technologies is dependent upon feasible strategies for their interoperability with existing networks and services. Such interoperability issues are the focus of several projects and hence the IST can have a major impact, when the information is properly channeled to appropriate groups. The IPv6 cluster is hence an important platform to achieve such wide-ranging influence. It will be particularly

important to be able to feed back the results of this cluster work to the standards bodies like the IETF, backed by concrete experience.

3.4 TEIN

For Korea, ETRI and other Asia-Pacific and European institutions, have established the TransEurasia Information Network (TEIN). This is a new continental network between Asia and Europe. At the moment, it can be accessed by GEANT via Renater 2. This allows access to the KOREN and APAN with both IPv4 and IPv6. With TEIN, we will have more collaboration between Europe and Asia (ETRI has just joined the 6NET project). At the moment the collaboration between ETRI and the Europeans has been established. This connection will be used for some application demonstrations across the two continents at the IST2002 conference.

3.5 6BONE

The 6bone is an IPv6 Testbed that is an outgrowth of the IETF IPng project that created the IPv6 protocols intended to eventually replace the current Internet network layer protocol known as IPv4.

The 6bone is currently a world wide informal collaborative project, operated with oversight from the "NGtrans" (IPv6 Transition) Working Group of the IETF.

The 6bone started as a virtual network (using IPv6 over IPv4 tunneling/encapsulation) operating over the IPv4-based Internet to support IPv6 transport, and is slowly migrating to native links for IPv6 transport.

The initial 6bone focus was on testing of standards and implementations, while the current focus is more on testing of transition and operational procedures.

3.6 EURESCOM

The Tsunami IPv6 Project:

Project P1113 (running time 2001-2002). Objectives of this project are:

- The setup of a network environment with new IPv6 features.
- Gain experience and single out problems in the deployment of the recently released standards in an operational multi-provider environment, which will be set up by all providers in the coming years.
- The case for new IPv6 services built on these features will be investigated.
- Sample applications for such ISP services will be demonstrated.
- The test-bed built up in Armstrong will be used and expanded by the new project.

4. SPONSORS

The project has secured several commitments from the vendors, network providers and operators to sponsor some of the required components, applications, connectivity etc… to build the IPv6 showcases. The Project is open to new sponsors that will join later as soon as they understand the strategy and the driving forces. It will be very crucial for the success of Eurov6 to focus on new generation applications that will create new opportunities to the European industry at large.

The present committed sponsors are:

- AGORA Systems S.A, Spain
- 6WIND, France
- BT Exact Technologies, U.K
- Nokia, Finland
- Compaq, U.S.A
- Hitachi, Japan
- Bivio Networks, U.S.A
- SAQ Internet Ltd, U.K
- Telefonica, Spain
- University Carlos III of Madrid, Spain
- University of Murcia, Spain
- Technical University of Catalunya, Spain
- Technical University of Madrid, Spain
- Xchange point, U.K
- Mobistar, Belgium

5. EVENTS

5.1 IST2002 Exhibition

A number of applications that are planned in the Eurov6 showcase projects are obtained from the IST projects that are implementing and testing these applications. The Eurov6 team in the framework of the IPv6 cluster will work in association with the IST projects in demonstrating these applications during the IST2002 exhibition.

5.2 Interop Events

The Interop events are held around Europe regularly and are expected to be a good place for demonstrating IPv6 applications and network features. The Eurov6 showcase will take a pro-active role in some of these events with nomadic demonstration showcases deployed.

5.3 IPv6 Forum Events

The IPv6 Forum has the main objective of awareness creation of IPv6 features among key actors. This awareness creation is achieved through a number of IPv6 Summits across the world. The Eurov6 project will take an active role by providing speakers, and possibly demonstrations and infrastructure to such events.

The Madrid Global IPv6 Summit in May 2003 (12-14th) in Madrid is already planned as one of the events where the showcase will be deployed.

5.4 ETSI Plug-tests Events

ETSI organizes regular Plugtests events to facilitate interoperability testing across several products. The Madrid Global IPv6 Summit will be also associated with such an event and so will the Eurov6 project. The next IPv6 Plug-tests event will take place in September 2003 in Brussels, in association with NGN-LAB (Brussels and Basel); the Eurov6 showcase will be part of this event as well, where an international Workshop will also take place.

6. SHOWCASES

The project has plans to set up three fixed Showcases located at Brussels (BE), Basel (CH) and Madrid (ES) and one nomadic showcase that can be moved to different events.

The Eurov6 Showcase Project will play an active role in the elaboration, packaging and documentation of the Showcase, facilitating tools (most probably a CD-ROM) that simplify the installation and configuration of nomadic deployments of this Showcase, whenever possible.

6.1 Demonstration of IPv6 Applications

Some of the applications that is planned to be incorporated into the showcase are:

- Home environment

In the home environment, one can be in the perfect IPv6 world. For example, you do not have to think of using food before it goes bad: Net refrigerator informs you which food is fresh, how much you have in stock and indeed orders food on your behalf from the supermarket. It also downloads recipes from cooking websites and controls Net microwave ovens and IH cooking heaters, so a wonderful dinner can be served. Through mobile devices, you can even control room lights, air conditioners and VCRs.

- Business premises

There are multiple audio/video and multimedia applications with a peer-to-peer connection without any network and address translation having the features of QoS, security (Authentication), seamless service operation such as multiple access services, sharing of workspace across distributed teams, … Applications and services such as Voice over IP and Videoconferencing over IP (eg. the ISABEL system) would constitute prime demonstrators.

- Mobile environment

Cars will more and more have Internet connectivity and hence represent a permanent ‘always-on’ network scenario on the move, so that the virtual office can always be where the person is located. Eurov6 will seek to approach European car manufacturers in order to demonstrate their prototypes.

- Mobile terminals

Different kinds of mobile terminals with IPv6 addresses allocated; mobile IPv6 applications demonstrating real-time features of IPv6 such as ‘voice over IP’, video and music on demand, etc., besides data applications that are well known.

7. DISSEMINATION ACTIVITIES

The dissemination activities will aim at awareness creation of IPv6 deployment related issues among all actors involved in the operational needs of IPv6 networks. This group will be supporting the activities of several organization and fora, related to IPv6 development and deployment. Examples of this are the IPv6 Forum, IPv6 Task Force, Next Generation Networks Initiative, ETSI, ISOC, IETF, 3GPP, 3GPP2, … This group will organize timely events/workshops jointly with important organizations and professional events organizers with targeted participants, to direct the dissemination for maximum impact.

7.1 Press Releases

The project plans to issue press releases on important issues and progress achieved in the project. The co-operation agreement signed between the project and the Japanese IPv6 Promotion Council was publicized through a press release including statements both from Eurov6 participants and Japanese officials.

7.2 Project Website

The main dissemination tool of the project is the project website. The domain names eurov6.org, .com and .net, eurov6showcase.org, .com, .net and ist-eurov6.org, .com, .net have been registered and all these lead to the same web site www.eurov6.org. The website is both IPv4 and IPv6 compatible and users from both networks can access the website seamlessly.

The project web site is established and will be continuously updated with the results of the project. The website has been submitted to most of the important search engines and to the portals, so that any visitor to one of the linked portals can easily access the Eurov6 showcase website for more information.

The site has both public and private space. The public space will have project related public information, links to related sites such Euro6IX, NGN-LAB, 6NET, IPv6 cluster, IPv6 Forum, among others. In addition to all this public information, all public deliverables will be made available on this site so that visitors can download the deliverables of their interest, by registering as users. All these users profiles will be maintained in the users group and whenever major changes are made with news, deliverables, events, etc. all these users will be notified in the form of a news flash.

The project partners will use the private web space, for exchange of documents, discussion groups and mail archiving.

The FTP has also been set up, for easier communication with larger files exchange.

8. USAGE PLANS

The principal users of Eurov6 are the IST projects who will be interconnected across the GEANT, 6NET or Euro6IX networks, who can readily use available application and make their demonstrations if they wish to, on the fixed showcases at any agreed time.

There are also a number of initiatives at national levels to set up IPv6 showcases, which can use the Eurov6 showcase. IST and national projects can also add their applications to demonstrate at various events where the Eurov6 showcase will be deployed.

Visitors to the Eurov6 showcase will benefit from real time and on-line applications demonstrations to understand the features and advantages of IPv6 networks, applications and services.

9. SUMMARY AND CONCLUSIONS

This document has summarized the activities planned in the Eurov6 showcase project for effective dissemination and usage.

The variety of contacts already established, and the good planning of further deployments of these contacts, and associated actions, will ensure a maximal dissemination of the results of the project, and its best impact on the European scene.