Project acronym: Euro6IX

Project full title: European IPv6 Internet Exchanges Backbone

Contract no.: IST-2001-32161

Project Summary

The goal of the Euro6IX project is to support the rapid introduction of IPv6 in Europe. Towards this target, the project has defined a work plan. This describes the network design, network deployment, research on advanced network services, development of applications (that will be validated through the involvement of user groups and international trials), and active dissemination activities, including events and conferences, contributions to standards (IETF among others), publication of papers and active promotion of all the publicly available project results through the project web site.

The project will research, design and deploy a native Pan-European IPv6 network, called the Euro6IX test bed. It will include the most advanced services obtainable from present technology and will follow the architecture of the current Internet (based on IPv4). It will consider all the levels needed for the worldwide deployment of the next generation Internet. The infrastructure of Euro6IX will consist of the following different network levels:

- **IX-level:** Regional native IPv6 exchanges.
- **Backbone-level:** Pan-European core network that interconnects the regional exchanges and creates the highest level in the network hierarchy.
- **Node-level:** Service providers, ISPs and other providers accessing the core network to provide IPv6 services and end user access. The users will be connected by means of a variety of access technologies, including legacy IPv4 networks and services whenever no IPv6 native links are available or feasible. This level includes a set of academic, research and non-commercial trial users who will use native IPv6 services and generate IPv6 native traffic.

Euro6IX will offer advanced network services, and a repository of IPv6 enabled applications, which have been ported, adapted or enhanced, and made available for trials both within Euro6IX and to third parties.

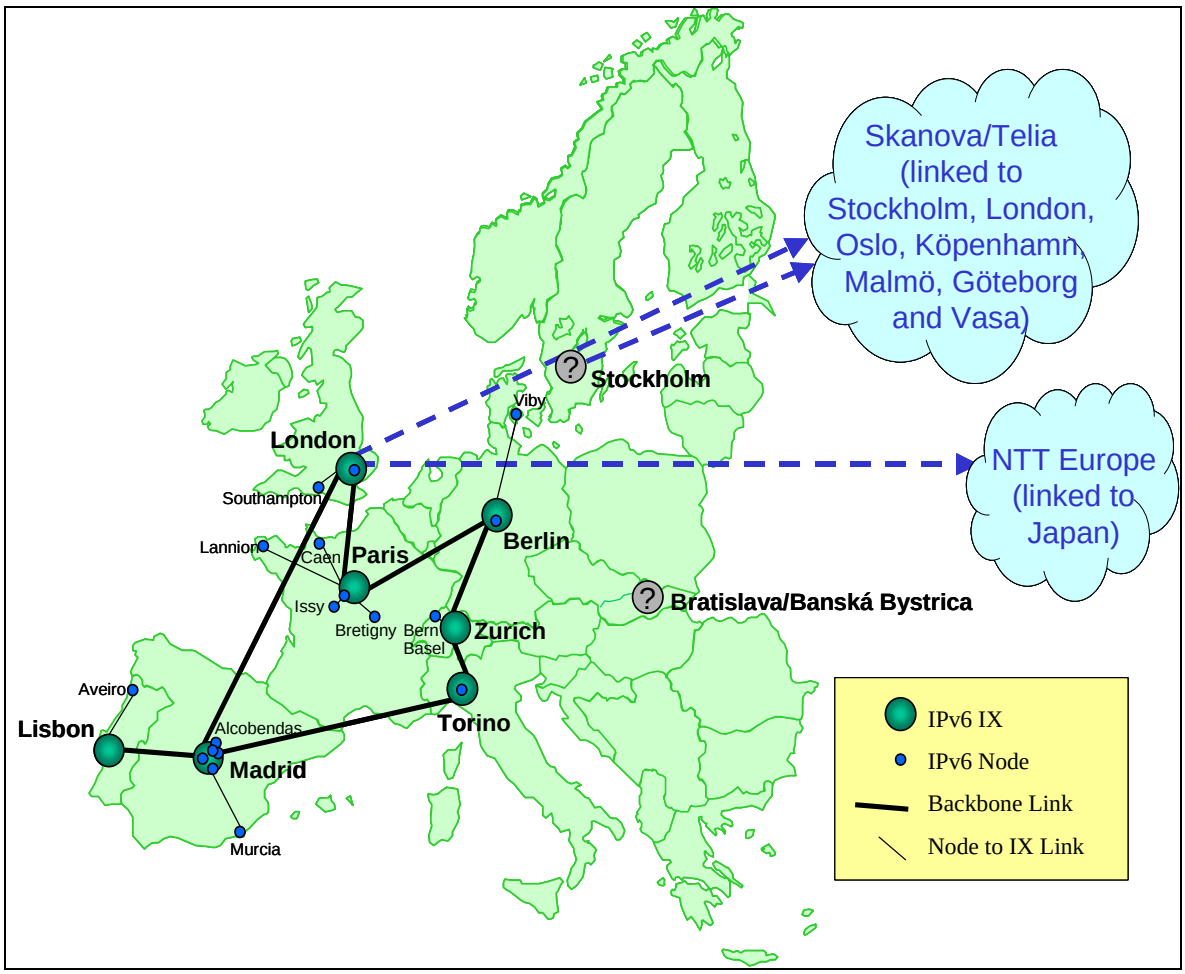
The native IPv6 traffic will be the result of both, specific and generic applications tuned for IPv6 (e.g., IPv6 enabled Web browsers).

The validation will be performed in a realistic context where the different actors and roles, which exist in the present Internet, are extrapolated to the IPv6 based next generation Internet. This validation will be made through the involvement of existing and new user groups created by the project with the daily use of the network by project partners and through both, internal and public trials and other events.

Additional dissemination, liaison and coordination activities will be performed in clusters, standards organizations or with interested third parties in order to give to the results of the project the highest visibility and to achieve the largest impact.

The success of the Euro6IX project will be measured against the achievement of:

- Provision of efficient interconnectivity and advanced network services, for the complete IPv6 European level Internet.
- Involvement of research entities and non-commercial trial users (user groups) in order to validate the network, advanced services and applications.
- Promotion of the IPv6 interests by ISPs and users, standardization bodies and other related projects.



Overview of Euro6IX Network

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The Consortium

Telecom Operator	Universities	Manufacturers	Consultancy	Other
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British Telecommunications plc	Universidad Politécnica de Madrid	Ericsson Telebit A/S	novaGnet systems, S.L.	European Organisation for the Safety of Air Navigation
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