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EUROpean IPv6 Internet eXchanges backbone

Results in Brief

Magalia: an IPv6 real time management tool

The Euro6IX project developed a native pan-European IPv6 network including several innovative applications and services, such as the Magalia software tool.



DIGITAL ECONOMY



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Aiming to introduce and support the Internet Protocol Version 6 (IPv6) in Europe, the Euro6IX project studied, designed and deployed a native pan-European non-commercial IPv6 Internet exchange network. The Euro6IX test-bed features high service quality and increased robustness similar to those offered by IPv4 Internet exchange

networks.

The Euro6IX test-bed allows several regional native IPv6 exchanges across Europe. Another level of the Euro6IX infrastructure is the backbone level, a core network that allows interconnection of the regional exchanges. The design architecture also offers an access level of nodes for Internet and service providers, as well as corporations and users.

Users are able to interconnect through various access technologies, even using legacy IPv4 networks and services in cases where IPv6 native links are unavailable or not feasible. The project work also focused on the research of advanced network services and development of applications, such as Magalia.

Magalia is a real-time monitoring tool for IPv6 Network Operation Centres (NOCs). Using the Simple Network Management Protocol (SNMP), Magalia allows the exchange of management information between the network devices in the most user-friendly way. It involves various features including network map graphics, shared management functionality and nodes (hosts and routers) status monitoring potentialities.

With the aid of its different modules, Magalia offers plenty of functionalities including voice-mailing for communication among NOCs and e-mail alerting. There is also increased capability to retrieve data from other networks' webs. For further information on the project click at: <http://www.euro6ix.org/main/index.php> 

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Project Information

EURO6IX

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[Project website](#) 

Project closed

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