



IST-2001-34056

Deliverable D4.3.9

"IPv6 Newsletter IX"

Contractual date of delivery to the European Commission	August 2003
Actual date of delivery to the European Commission	September 2003
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Participant(s)	6LINK Partners
Workpackage	WP4 – Publications
Title of Deliverable	IPv6 Newsletter IX
Security	Pub
Deliverable Type	Website and Document
Version	1.0
Number of pages	10

Abstract	This deliverable provides a short summary of the news items published on the IPv6 Cluster website in the period July 2003 to August 2003.
Keywords	IPv6 IST News

**NGN-Lab supports DHCPv6 interop tests**

Date: Monday, July 07 @ 14:04:18
Topic: NGN Lab

Back-to-back with the 57th IETF in Vienna/Austria, NEC Europe Ltd. organizes with additional support of the [NGN-Lab Project](#) a DHCPv6 interoperability event. There you have the chance to test different DHCPv6 implementations. The main goal is to prove interoperability of several DHCPv6 client, relay, and server implementations. Implementations should be based on the latest Internet draft (draft-dhc-dhcpv6-28.txt) and the latest results from draft-ietf-dhc-dhcpv6-interop-01.txt. More DHCPv6 info is available [here](#).

Privacy and Civil Liberty Concerns in Relation to IPv6

Date: Tuesday, July 08 @ 16:28:30
Topic: Euro6IX

The Euro6IX project has published a deliverable regarding IPv6 Privacy aspects. If you are interested in accessing the document, please go to www.euro6ix.org, documents section and then deliverables. The document is D4.2. According to the Euro6IX consortium policy, you will need to register, in case you haven't done it already (you will have that option when clicking on the document link), but this will give you access to a lot of additional public documents.

IPv6 Overall Status

Date: Tuesday, July 08 @ 16:37:28
Topic: IPv6 Task Force SC

The IPv6 Task Force Steering Committee just released and updated version of the "IPv6 Overall Status" deliverable. The document describes the Global IPv6 status and recent changes in deployment and efforts done worldwide. If you are interested in accessing the document, please go to the [the IPv6 TF deliverables web site](#); the document is deliverable D3.2.

Power Line Business Plan

Date: Tuesday, July 08 @ 16:43:29

Topic: 6POWER

6POWER just published a new and very interesting deliverable, documenting the case for the deployment of IPv6 PLC.

If you are interested in accessing the document, please go to the [6POWER web site deliverables area](#) and click over D1.2B.

In the next release, we will document the network deployment cost and operation/management comparing IPv4 versus IPv6. According to the 6POWER consortium policy, you will need to register, in case you haven't done it already (you will have that option when clicking on the document link), but this will give you access to a lot of additional public documents.

Cost of NAT

Date: Tuesday, July 15 @ 16:23:19

Topic: IPv6 Task Force SC

The North America IPv6 Task Force, in cooperation with the IPv6 Task Force Steering Committee, elaborated a couple of slides to describe the cost of NAT. The document is available at the [IPv6TF document store](#).

ISOC and WSIS

Date: Tuesday, July 15 @ 16:26:46

Topic: IPv6 Task Force SC

The IPv6 Task Force cooperated with ISOC in the document "Comments of the ISOC on the World Summit on the Information Society (WSIS) Draft Declaration of Principles and Action Plan". The document is available at the [IPv6TF document store](#).

IPv6 TF Comment on Opinion 2/2002 Art. 29 Data Protect. Working Party

Date: Tuesday, July 15 @ 16:27:27

Topic: IPv6 Task Force SC

The IPv6 Task Force Steering Committee, in cooperation with the Euro6IX project, elaborated a reply to the Opinion 2/2002 Art. 29 Data Protection Working Party. The document is available at the [IPv6 TF document store](#).

Barriers to IPv6 Deployment

Date: Tuesday, July 15 @ 16:28:26

Topic: IPv6 Task Force SC

The IPv6 Task Force Steering Committee elaborated a document describing the barriers for the deployment of IPv6. The document is available at the [IPv6 TF document store](#).

Demonstrations from the IPv6 Cluster Projects

Date: Tuesday, July 15 @ 16:30:02

Topic: 6LINK

Several IPv6 Cluster projects made public demonstrations at the last Madrid 2003 Global IPv6 Summit. 6LINK compiled a document with the description of these demonstrations and this is available at the [IPv6 Summit web site](#).

Other interesting documents available also [here](#). The event slides are publicly available also [here](#). Finally, all the sessions were recorded and the streaming archive is available [here](#).

New Internet Land Speed Record set with IPv6

Date: Tuesday, July 15 @ 16:31:12

Topic: General News

Geneva 26 June 2003. Scientists at CERN and the California Institute of Technology (Caltech) have set a new Internet2 land speed record using the next-generation Internet protocol IPv6. The team sustained a single stream Transfer Control Protocol (TCP) rate of 983 megabits per second for more than one hour between CERN and Chicago, a distance of more than 7,000 kilometres. This is equivalent to transferring a full CD in 5.6 seconds.

Full text is available at the [CERN press site](#).

1st Year Public Trial

Date: Tuesday, July 15 @ 16:31:53

Topic: Euro6IX

Euro6IX project has successfully completed the 1st year public trials. The consortium released a short document documenting it, available at the documents/general section of the [Euro6IX web site](#).

IPv6 Commercial Deployment in Europe

Date: Tuesday, July 15 @ 16:32:47

Topic: IPv6 Task Force SC

The IPv6 Task Force Steering Committee released a set of slides that include the status of the commercial deployment of IPv6 in Europe. The slides have been prepared with the cooperation of several European Telcos and the National IPv6 Task Forces. The slides are available at [EC IPv6 TF web site](#)

More firewalls coming with IPv6 support

Date: Tuesday, July 15 @ 16:34:02

Topic: General News

NetScreen is among firms adding IPv6 to firewalls. NetScreen, a maker of network security appliances, last week made available to existing customers a beta version of firewall and VPN software that supports IPv6. More complete information is at the [NWFusion web site](#)

New IPv6 ready products in last N+I

Date: Wednesday, July 16 @ 09:48:36

Topic: General News

In the last Networld+Interop, a lot of vendors presented new IPv6 ready products within the IPv6 showcase. In addition, about 30% of the rest of the booths were already talking about IPv6. A report, with pictures of the products is available at the [NetWorld+ Interop event web site](#)

RedIRIS, the Spanish NREN, introduces native IPv6

Date: Wednesday, July 16 @ 09:49:46

Topic: GEANT

Since May 2003, RedIRIS, the Spanish NREN has installed dual IPv4/IPv6 stack, providing since then native IPv6 connectivity to universities and research centers in Spain, which are now able to exchange natively IPv4 or IPv6 packets.

Since May 2003, RedIRIS, the Spanish NREN has installed dual IPv4/IPv6 stack, providing since then native IPv6 connectivity to universities and research centers in Spain, which are now able to exchange natively IPv4 or IPv6 packets. The interior routing protocol used is IS-IS, with basic IPv6 prefix route filters configured at access points.

RedIRIS provides, amongs others, a Network Time Protocol (NTP) service to synchronize clocks of hosts and routers for the RedIRIS community. Several tests have been done to evaluate the NTPv6 implementation and the results showed that it performs slightly better than IPv4. Since May 2003, NTPv6 is available in the RedIRIS network. The Domain Name Service is also provided both IPv4 and IPv6.

This Spanish IPv6 connectivity crosses domains, and it is worth pointing out that RedIRIS was the first European NREN (National Research and Education Network) to establish a native IPv6 BGP peering with GEANT (the pan-European research network), which is complemented with other IPv6 tunnel connections with RETINA (Argentinian NREN), REUNA (Chilean NREN) and CUDI (Mexican NREN).

RedIRIS has also played an important role launching and promoting the IPv6 initiative at ESPANIX (Spanish

Internet Exchange Point). At this moment, three peerings have been established with commercial providers.

As a proof of maturity of the network, RedIRIS joined with ARNES (the Slovenian NREN) and DANTE (the pan-European advanced research and education networking organization) in setting a record for the single stream IPv6 category of the Internet2 Land Speed Record, in October 2002 (although this record has since been beaten again).

Mobile IPv6 finally proposed standard

Date: Tuesday, July 22 @ 10:57:20

Topic: General News

The last remaining hurdle at the IESG was lifted on the MN-HA IPsec draft. This means that we now have a complete set approved for MIPv6 as a proposed standard.

The actual documents are: draft-ietf-mobileip-ipv6-24.txt draft-ietf-mobileip-mipv6-ha-ipsec-06.txt

Invites Go Out for IPv6 Test

Date: Tuesday, July 22 @ 10:58:14

Topic: General News

Invitations have gone out for a test of IP version 6 routers sponsored by Light Reading and its sister Website covering mobile network infrastructure, Unstrung.

Light Reading has commissioned the European Advanced Networking Test Center AG (EANTC) to develop the test plan and conduct the tests using test equipment from Ixia.

Service providers want to make sure that the routers they buy today won't become obsolete when and if IPv6 use takes off. These tests aim to address their concerns, by reviewing not only the performance of routers supporting native IPv6 networks but also networks migrating from one protocol to the other.

See the complete info at the [Light Reading web site](#)

New contribution to standards in IETF

Date: Wednesday, July 23 @ 13:26:31

Topic: Euro6IX

The partners of the Euro6IX project have presented several Internet Drafts during the last Vienna meeting (IETF 57th).

Two presentations were actually done, one relative to the last Interoperability Test Report ([rfc2845-report-4.zip](#)), and another one regarding the Forwarding of Protocol 41 in NAT Boxes([v6ops-proto41-nat_ietf57.zip](#)).

The Euro6IX partners are actively contributing to several Design Teams in v6ops and other Working Groups.

New Policy regarding Euro6IX public documents

Date: Wednesday, July 23 @ 13:27:23
Topic: Euro6IX

The Euro6IX consortium has decided to provide non registered access to all the public documents, deliverables and presentations.

All these documents are available at the project [web site documents section](#).

DoD IPv6 Joint Technical Architecture site

Date: Wednesday, July 23 @ 13:28:18
Topic: General News

The DoD is compiling in their JTA site a collection of documents, standards and products that support IPv6.

If you have IPv6 product description URLs and web pages for IPv6 products you should visit that web page and forward them the information (Eventually this will probably be automated but not yet).

For more details see [the DoD site](#).

2nd IPv6 Cluster Publication: Moving to IPv6 in Europe

Date: Wednesday, July 23 @ 13:29:08
Topic: 6LINK

The latest IPv6 Cluster publication is now available on-line in PDF format - [Moving to IPv6 in Europe](#).

This publication provides an overview of European R&D activities in the IPv6 area, focussing on projects, networks, trials and applications developed and demonstrated in the Information Society Technologies (IST) Programme.

This overview has been edited by the IST project 6LINK based on inputs from 6LINK partners and from many external contributors, including representatives of the European Commission, other IST projects and other companies and research institutions.

The following topics are specifically addressed:

- Overview of the IST work programme and its relation to IPv6;
 - Deployment issues related to IPv6 technology: IPv6 Plug and Play, Multicast, Mobility, Security, Performance and Conformance;
 - Description of projects that have developed IPv6 applications and services, and;
 - Research networks.
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IPv6 Plugtest, 23-26 Sept 2003, Brussels

Date: Wednesday, July 30 @ 10:28:07
Topic: 6LINK

There will be a plugtest event in Brussels in September 2003. Companies active in the IPv6 world will be able to:

- Check that their latest development (IPv6, Mobile IPv6, etc..) work with other companies' code
- Get advice and expertise from world wide test teams from UNH(US), TAHI(JP) , and ULB and G6TEST (EU)
- Apply to get get the [IPv6 ready](#) logo.
See all details at [the event web site](#)

Attend the [parallel conference](#) and see the demonstrations.

Microsoft Windows XP Peer-to-Peer Downloads

Date: Wednesday, July 30 @ 10:29:25

Topic: General News

Microsoft have now released the Advanced Networking Pack for Windows XP SP1.

Previously known as the Peer-2-Peer Update, it includes an IPv6 firewall, Teredo (NAT Traversal) & various P2P technologies.

The download is available [here](#).

An SDK is also available on the same page.

ITU IPv6 Newslog

Date: Wednesday, July 30 @ 10:31:03

Topic: General News

The International Telecommunication Union (ITU) Strategy and Policy Unit has just started a news log on IPv6. The log covers IPv6 news stories of general interest to a wide readership.

More details can be found on the [ITU Newslog site](#)

IBM vision for IPv6

Date: Friday, August 08 @ 11:39:50

Topic: General News

IBM has just released a new version of its position paper regarding IPv6.

The document provides the "IBM vision for IPv6 in the era of e-business on demand", including a short introduction to IPv6, and explanation about IPv6 as "more than just addresses", IPv6 status today in the world, customer scenarios at IBM and even risk factors.

The [IBM vision for IPv6](#) is available as a PDF document on the IBM web site.

Pre-normative Study for IPv6 Testing

Date: Friday, August 08 @ 11:40:58

Topic: IPv6 Task Force SC

ETSI has published the ["Pre-normative Study for IPv6 Testing"](#) Technical Report.

The main objective of this document is to investigate the need for and the scope of conformance and interoperability test specifications to support the European Commission's IPv6 deployment goals, the IPv6 Forum's "IPv6 Ready" certification programme and ETSI's own needs for IPv6 testing (including 3GPP). The document has three main technical goals:

- 1) to contribute to making the IPv6 testing process more flexible, efficient and cost-effective by the development of an IPv6 test suite development kit based on TTCN-3;
 - 2) to identify the priorities and Areas of Interest for testing;
 - 3) to propose work packages that can be used as a basis for making proposals for STFs to perform the work identified in the present document.
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Multithreaded IPv6 networking stack with support for virtual routing

Date: Wednesday, August 27 @ 14:36:13

Topic: General News

TeamF1 Inc. will deliver an embedded networking stack this week that supports multithread operation while simultaneously supporting IPv6 traffic streams.

The NetF1 stack is built on the VxWorks operating system and contains many of the key networking protocols required for today's designs, such as TCP/IP and IP multicasting. Like other stacks, NetF1 also supports common networking protocols like UDP, the Internet Group Management Protocol and the Internet Control Message Protocol.

More information available at the [TeamF1 site](#).

IPv6 Routing on NP-1c 10-Gigabit Network Processor

Date: Wednesday, August 27 @ 14:36:51

Topic: General News

EZchip Delivers Sample Code for IPv6 Routing on its NP-1c 10-Gigabit Network Processor Welcoming the Arrival of IPv6 to America.

EZchip Technologies (a subsidiary of LanOptics Ltd., NASDAQ:LNOP), a fabless semiconductor company providing high-speed network processors, today announced the immediate availability of IPv6 routing sample code for its NP-1c 10-Gigabit network processor.

The NP-1c integrates Processing and Classifying - the two main functions of network processing - on to a single chip, replacing as many as 40 chips in competing solutions with one for various applications, for example an Edge router with 500,000 routes and flows.

More information available at [EZchip site](#).

Asia Netcom Delivers NEC's IPv6 Multicast Video Streaming Solutions

Date: Wednesday, August 27 @ 14:37:17

Topic: General News

NEC Provides Next Generation Multimedia Applications to Businesses And Government Agencies in Japan Across Asia Netcom's Fiber Optic Infrastructure

Asia Netcom joins NEC in announcing the launch of a powerful regional application-driven solution for business and government agencies in Japan.

The NEC solution is delivered over Asia Netcom's pan-Asian fiber infrastructure and features end-to-end IPv6 support, including network deployment, content delivery and service provisioning. The new product will bring to market a cost-efficient multicast solutions package that facilitates next generation applications such as e-learning and security monitoring systems for both Japanese corporations and government agencies.

More information available at the [AsiaNetcom site](#).

Korea Government & Business Community Aiming At Internet Sovereignty with IPv6

Date: Friday, August 29 @ 09:12:11

Topic: General News

The government and the business community are working to move away from U.S.-led Internet system.

The government decided to carry out independent policies in the Asian region in the IPv6 area, the next-gen. Internet address system, which will be led by Korea, Japan and China other than the U.S. Domestic companies are also defecting from the current Internet address (domain) structure which is unilaterally administered by the U.S.-led ICANN, and begin to unveil independent alternative services.

A government official said yesterday, "Until now, we have been the recipient of the U.S. system. However, it is necessary for us to be independent in the next-gen. market such as IPv6." "If Korea and Japan with relative superiority in technology cooperate, there is an ample chance to move ahead of the U.S. or Europe in the competition."

[Click here for the complete press info.](#)
