























### AARnet IPv6 Working Group - email list

AARNet email list: ipv6@lists.aarnet.edu.au used for

- · discussion of issues regarding IPv6;
- · sharing of experiences using this technology;
- · facilitating discussion of the Working Group's objectives and current issues;
- · dissemination of outcomes of the Group's activities;
- sharing of information from other sources.



## AARnet IPv6 Working Group - Miniconf Activity

Miniconf, Adelaide January 2004, in conjunction with Linux Conference.

- Workshops:
  - designed for people new to IPv6;
  - information on global routing, device configuration, provider independent addressing and issues with IPv6.
- · Presentations:
  - Mobile IPv6: Mobility in a Wireless Internet
  - Modeling and Simulation of IPv6 Networks
  - AARNet IPv6 Tunnel Broker
  - IPv6 Status, Activity and Prospects in Australia



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## AARnet IPv6 Working Group - Papers & Presentations

• These can be found on the Working Group's web site

http://www.aarnet.edu.au/engineering/wgs/ipv6/presentations/



# AARNet - Tunnel Broker

- IPv6 tunnel broker set up in AARNet in 2003;
  - -enables connection to the IPv6 backbone without a native IPv6 connection
  - -http://broker.aarnet.net.au/
- Currently AARNet is tunneling IPv6 into an AARNet router and tunneling on to IPv6 research networks.
- During 2004 AARNet will provide native IPv6 routing over all its infrastructure using the AARNet3 network.



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## AARnet - Freenet 6 Server

- · Installed & operational
- · Offers tunnels for IPv6 services over IPv4 clouds
- Part of the standard transition mechanisms that may be attractive to communicate with imbedded legacy systems after IPv6 migration.



## IPv6 Forum Australia

#### Aims to

- · educate:
- provide case studies and implementation self help:
- promote IPv6 Ready interoperability test suites to Australian hardware and software developers;
- act as a clearing house for vendors, carriers, developers and end users; and
- remove the barriers to IPv6 adoption, including the identification of any regulatory or government policy impediments.



#### **Current Initiatives**

- · Korea to invest \$160 million in IPv6 by 2007
  - -The Korean government aims to put the nation in a leadership role in the world-wide Internet equipment market and make it an internet super power by commercialising IPv6 technology early on.

(Source: Korea Herald, 19 Sep 2003).



## US DoD

- · DoD 8100.1 IPv6 Procurement Policy June 9, 2003
  - IPv6 is vital for the US version of network-centric warfare, the Global Information Grid (GIG) project.
  - The GIG involves networked sensors, platforms and other IT and existing national security systems. It is designed to share resource and expand US security data and analysis.
  - and expand US security data and analysis.

    The US Defense Department intends to migrate parts of the GIG to IPv6 between 2005 and 2007, and fully adopt the standard by 2008. The first applications to be ported to the network will include basic language translation, military gaming and simulations.

    As from October 1 2003, ALL US DDD GIG Network Hardware and Software purchases must be IPv6 compliant.

  - "The Australian ADF intends to follow this US lead."
  - Marc Ablong, Director Information Management Futures, ADoD
    - The Australian, July 22, 2003



#### ISOC Committed to Promotion of IPv6

- Internet Society Mission Statement "To assure the open development, evolution and use of the Internet for the benefit of all people throughout the
- The Internet Society advises governments and others against actions that would restrict how technology can evolve in the future.

http://www.isoc.org/isoc/mission/

- Since 1992 ISOC has been the organisational home for the Internet Engineering Task Force (IETF), which develops the standards that ensure the stability, reliability, security, and scalability of the Internet.
- The Society in particular sees IPv6 as one of the technologies that will help support social and economic development and has a specific policy position for the promotion of IPv6.

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# IPv6 Ready Logo Program http://www.ipv6ready.org/ http://43.254.18.162/ HTTPv4 and HTTPv6 **aar**net

## IPv6 Ready Logo Program

- · Launched September 1, 2003
- To avoid confusion in the mind of customers, a globally unique IPv6 Ready logo programme has been defined.
  The IPv6 Ready logo will give confidence to users that IPv6 is both currently operational and provide a clear indication that the technology is future-proof.
- The IPv6 Ready logo programme will contribute to the feeling that IPv6 is available and ready to be used TODAY.





# IPv6 Logo Programme Phases

- Phase I (Short term period) :
  - In a first stage, the Logo will indicate that the product includes IPv6 mandatory core protocols and can interoperate with other IPv6 Ready IPv6 equipment.
- Phase II (Long term period):

  The "IPv6 Ready" step implies proper care, a technical consensus and clear technical references.

  The IPv6 Ready logo will indicate that a product has successfully satisfied strong requirements stated by the test

contract.
To avoid confusion, the logo "IPv6 Ready" will be generic.
The programme defines the test profiles with associated requirements for specific functionalities.







































