



Internode

An Australian Broadband Provider's Perspective on IPv6

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About Us

Privately owned and founded in 1991

Fifth largest broadband provider in Australia

Infrastructure owner – DSLAMs, Fibre, Microwave

International network - into Asia, US and Europe

Technology / Thought leader in our market



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How did we start?

Oct 2007 to Feb 2008

- Enabled IPv6 on our US transit

- Enabled IPv6 on some peering in the USA

- Enabled IPv6 on Domestic Network

Jan 2008

- First dual stack transit customers (ethernet)

- Some content servers

Apr 2008

- Tokyo POP live as dual stack from day #1



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The edge??

Much Harder than core and transit/peering

Jul 2008 – Hexago Tunnel Broker and 6to4
(RFC 3964)

Some time passes ...

Nov 2009 – Dual Stack IPv6 ADSL Trial



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Why is it Harder?

Core / Transit edge well tested

BRAS dual stack support clearly not.

High end BRAS dual stack support very lacking

“How” is only recently less fluid

No customer experience due to lack of CPE



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Lessons Learnt

Start - don't just talk about starting

It gets easier – becomes “business as usual”.

Doing means credibility – especially when vendors/
suppliers know you can check on a live network.

Don't stop (or fail to start) because of a single
roadblock. Keep going in other areas.



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The only things

The only things you need to start are:

IPv6 allocation from an RIR

Some dual stack transit

And the will to do it ...



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Thanks!