



Getting IPv6 into the Workplace

Michael Biber IPv6 Forum Downunder ISOC-AU IPv6 SIG

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Getting IPv6 in the Workplace

- Workplaces come in many shapes and sizes however they have a few fundamental things in common.
 - key findings that drive the adoption of IPv6?
 - the practical problems that organisations have identified and their solutions.
 - Business' technology adoption meets some fundamental milestones?
 - Procurement refreshes,
 - Experimentation
 - Training
 - Planning





What is today's Workplace?

- Real / Virtual
- Fixed / Mobile
- Large / Small
- Services Insourced / Outsourced
- Standard Day / 24x7
- Home / Office / in transit
- IP Savvy / Couldn't give a rats!
 - Does that need translation?

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What do we need to worry about?

- IPv6 ITOL Website ROI Excel Spreadsheet
 - www.ipv6.org.au/enabling
- Transition Techniques
- Tunnel Brokers
- Firewalls, IDS, Backup
- Applications Support
- MobilelPv6
- Exposure to trading partners, v6 only Web Stes, Gaming servers with e2e authentication over v6





Japan Experience - Messages

- Remote Desktop via AutoConfig, to avoid tunnel problems with PPPoEover Routered connections – NTT East Application
- IPv4 NAT suitable not suitable for push technology, like Earthquake alarms
- Use multicast as it has higher performance than IPv4 unicast.

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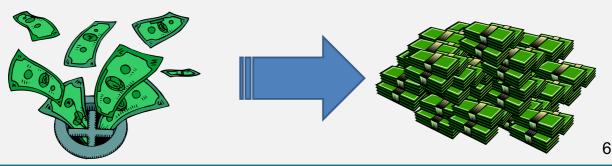
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Yield cost savings (short term payback)

- Smplification in design and architecture
- Freeing conservative address planning
- IP Multicast and Content Provision



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Create or enhance revenue streams (long term payback)

- Business Case Justification Yv6
- Coordination amongst all stakeholders
- Planning
- Network Assessment and Cost Analysis
- Training
- Testing & Trial
- Deployment
- Production

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Generate a competitive or strategic advantage (value add)

- What problems will be solved by IPv6 and which will require the retention of IPv4
- Content will remain largely IPv4 for the foreseeable future
- IPv6 Transport OK, IPv6 in the Core OK; the issues are at the edges...provisioning, management, performance
- Provider Independent Address space



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Time to jump in!

- Tunnel Brokers
 - AARnet
 - Vee-six
 - Hexago Go6
 - IPv6 Now Secure6™
- Dual Stack
- Translation
- VLAN (RFC4554)

"Give them a good reason to take their medicine"

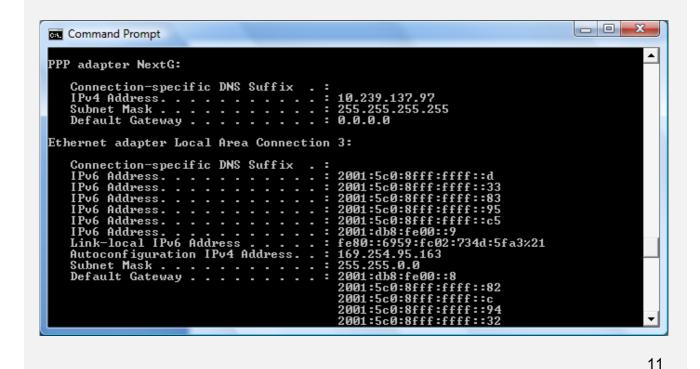
- Bruce Sindair Hexago
- Start with a manageable application....Network Management Control Plane?

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Vista (XP) IPv6 Stacks



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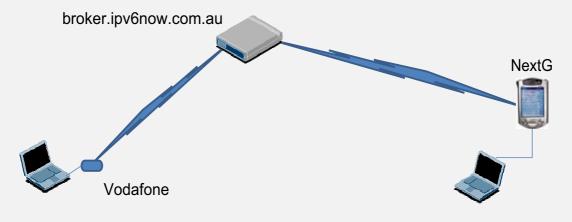
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Secure6[™] Tunnel Broker

Windows Vista Windows Meeting Space (WMS) Demo



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Getting IPv6 into the Workplace? Just do it!

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