DEPARTMENT OF FINANCE AND ADMINISTRATION

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Building Capacity for Future Innovation

The Australian Government's IPv6 Transition Strategy

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Wednesday, 21 November 2007

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Why should we move to IPv6?

- No more IPv4 addresses ❌

- Unlimited address space ❌

- Better security ❌

- New applications are waiting ❌

- Everyone else is ❌

- Need to support IPv6 based technologies ❌

When should we move?

- When the business case is approved? ✖

- When industry is ready? ✖

- When everyone else does? ✖

- When we have saved for it? ✖

- When the compelling event occurs? ✖

How did we progress?

- Established IPv6 Reference Group in April 2007.

- Liaison – locally and internationally.

- Exposure of the IPv6 Transition Strategy paper considered by the Chief Information Officer Committee in October 2007.

What was the outcome?

The strategy should encompass:

- A risk management/mitigation approach

- Ability to do it under our own terms

- Take advantage of industry developments

- Leverage off the experience from others.

What has driven the proposed strategy?

- Maintaining high levels of interoperability between agencies and internationally.

- Maintaining agency security.

- Leveraging agency ICT refresh cycles.

- A planned, controlled and fiscally responsible approach.

Key elements of the proposed strategy

- A three step plan:
    - Preparation
    - Transition
    - Implementation.

- Timing

- Governance

- Agency and whole-of-government reporting

Implementation of the strategy

- Proposed commencement in 2008.

- Target for completion in 2013/2015.

Preparation stage

- January 2008 to around December 2009.

- Major activities:
  - Stocktake of current ICT infrastructure
  - Training Needs Analysis
  - Threat and Risk Assessment
  - Procurement Policy review
  - Building IPv6 awareness
  - Whole-of-government IPv6 address space discussion.

Transition stage

- Around January 2010 to around December 2012.

- Major activities:
  - Ongoing stocktake of infrastructure
  - Training for Technical/Administrative staff
  - I-RAP assessment completed/updated
  - Installation of IPv6 capable ICT backbone infrastructure
  - Dual capable networks.

Implementation stage

- Around January 2013 to around December 2015.

- Major activities:
  - IPv6 Networks in place
  - IPv6 Hardware in place
  - IPv6 applications in use.

Governance

- Chief Information Officer Committee responsible.

- Community of Expertise to guide and assist.

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Reporting

- Proposed that agencies report progress annually, or as required.

- Proposed that AGIMO report to CIOC annually, or as required.

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QUESTIONS?