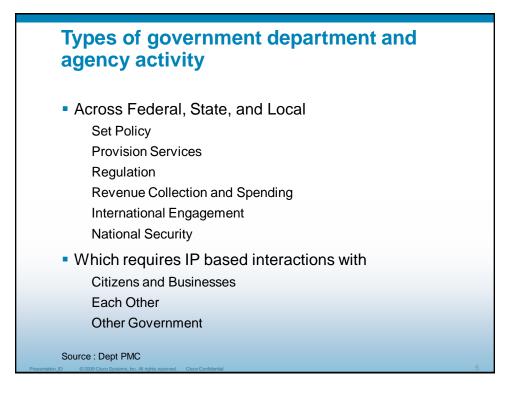


Agenda

- IPv6 drivers for government
- Types of government departments and agencies
- Types of Internet users
- Impact on government networks

Drivers

- Address depletion.....will it ever have an impact??
- Policy....."A revised IPv6 transition strategy was endorsed by CIOC in January 2009. The revised strategy sees agencies having their IPv6 ready hardware and software in place by end 2011 and having all systems IPv6-enabled by end of 2012."
- Service delivery interacting with Australian citizens and businesses



Types of IP users

The next 3 to 5 years

- Public IPv4-only: An Internet user who has had a public IPv4 address and is keeping it for the foreseeable future. This user can only access IPv4 services.
- Shared IPv4-only: An Internet user whose connections to the Internet go through a NAT function operated by the ISP or the enterprise. This user can only access IPv4 servers, and the use of NAT puts constraints on the applications he or she can use.
- Public IPv4 and IPv6: An Internet user who has public IPv4 and IPv6 addresses and can access both IPv4 and IPv6 services without any restriction.
- Shared IPv4 and IPv6: An Internet user who has a public IPv6 address and a shared IPv4 address and who can access all IPv6 services without any restriction and all IPv4 services through a NAT.
- IPv6-only: An Internet user who has only a public IPv6 address and can access only IPv6 services.

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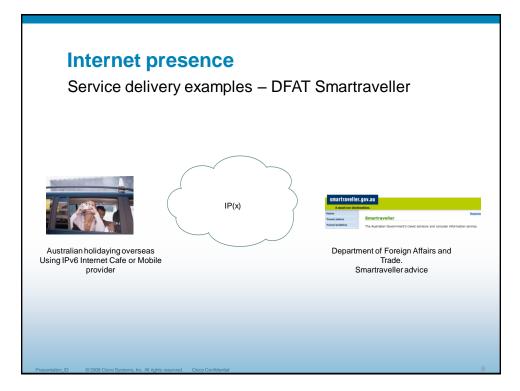
Internet presence

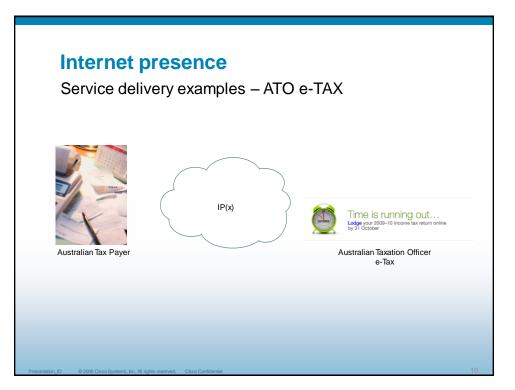
- The IPv4 Internet presence of a department will continue for the existing users.
- Questions that departments should answer when considering when and how to deploy IPv6-capable customer and business partner services:

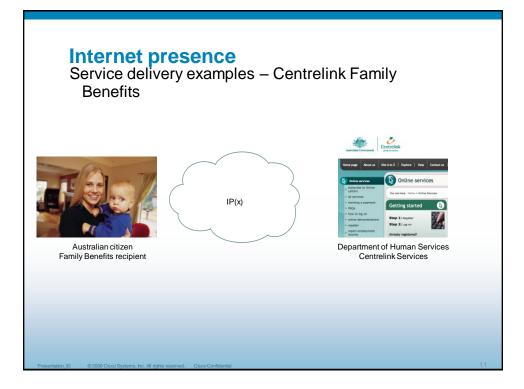
Are there any regulations or incentives that require or encourage either the department or its customer base to migrate to IPv6?

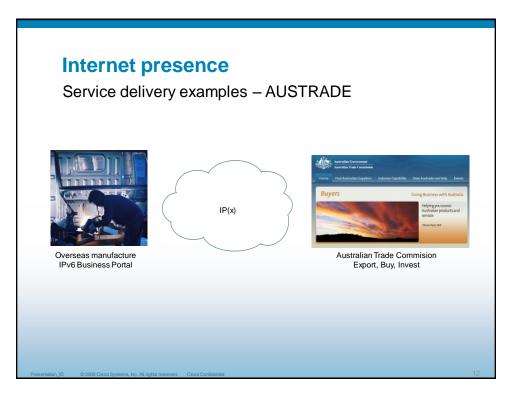
- Are there any customers or business partners who would not have access to IPv4 services?
- Are there any applications that would be severely affected if the Internet users are behind a shared NAT?
- Is there any performance or resiliency benefit either to adding IPv6 or to staying with IPv4?

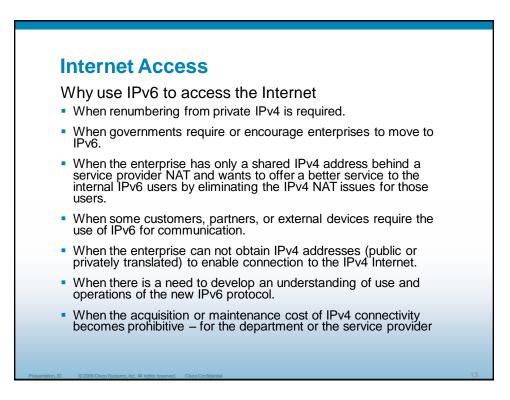
Is a unique identifier (like an IP address) important for the service?

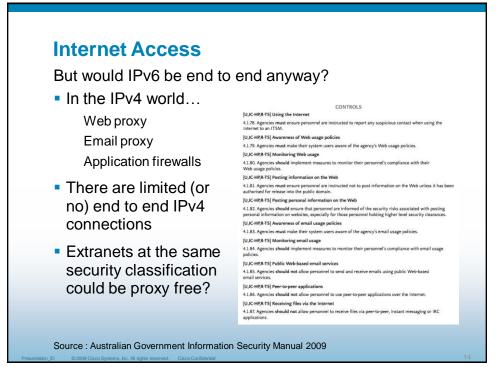




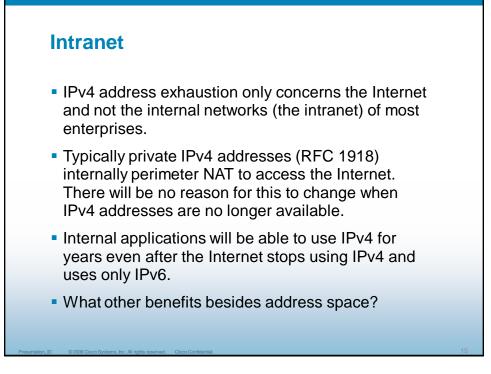


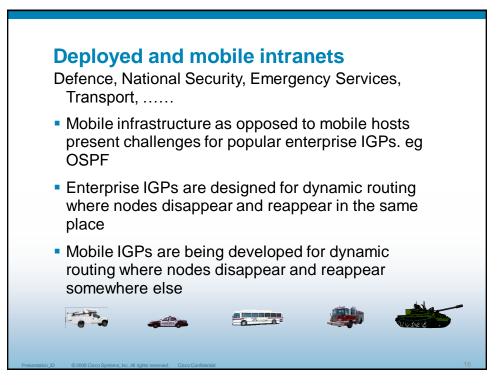






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