



WHEREFORE ART THOU, IPV6?

PRESENTATION FOR AUSTRALIAN IPV6 SUMMIT 2012

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IT'S HOW
WE CONNECT





O IPv6, IPv6,
wherefore art
thou, IPv6?

Almost.. (pant)...
there... (pant, pant)!



Philip H. Calderon, *Juliet* (1888)

THE INDUSTRY ROAD TO IPV6

2010

2020+



Experimentation

- No ISP IPv6 build, IPv6 over IPv4 tunnelling



Early Implementation

- ISP IPv6 build
- Dual stack access
- IPv6 traffic & content low
- Provides IPv6 experience
- Still dependent on IPv4
 - Needs IPv4 addresses

Industry is
here?



Transition

- IPv6-only access
- But still large IPv4 presence
- 64 Translation | 4/6 tunnelling
- ISP IPv4 address exhaustion
- IPv6 standard on devices
- Customer adoption
- Dual-stack content
- Significant IPv6 traffic



Completion

- IPv6 preferred
- IPv6-only content
- IPv4 reducing
- Long time

THAT WAS THE YEAR THAT WAS

2011

2012

And shortly...

IT'S HOW
WE CONNECT



ISP

Internet Access • Ethernet • Ethernet Lite

Enterprise

Internet Access • Ethernet • Ethernet Lite • ADSL
IP VPNs • Ethernet, ADSL, ATM, Frame Relay
DoSP

Government

Internet Access • Ethernet • Ethernet Lite • ADSL
IP VPNs • Ethernet, ADSL, ATM, Frame Relay
DoSP
Managed Secure Network Gateway

Business

Internet Access • Ethernet • Ethernet Lite • ADSL
IP VPNs • Ethernet, ADSL, ATM, Frame Relay
DoSP

Consumer

?



'000,000s
customers



Immature IPv6



IT'S HOW
WE CONNECT



Controlled
Release



Lots of consumers –

but where is IPv6?

Strategic
vs.
Legacy



Devices

Dual Stack

vs.

Single Stack

Promoting IPv6:

Transparency vs.

Highlighting

TO BE. (THERE IS NO QUESTION!)

IT'S HOW
WE CONNECT



And all my fortunes at thy foot I'll lay
And follow thee, IPv6, throughout the world.

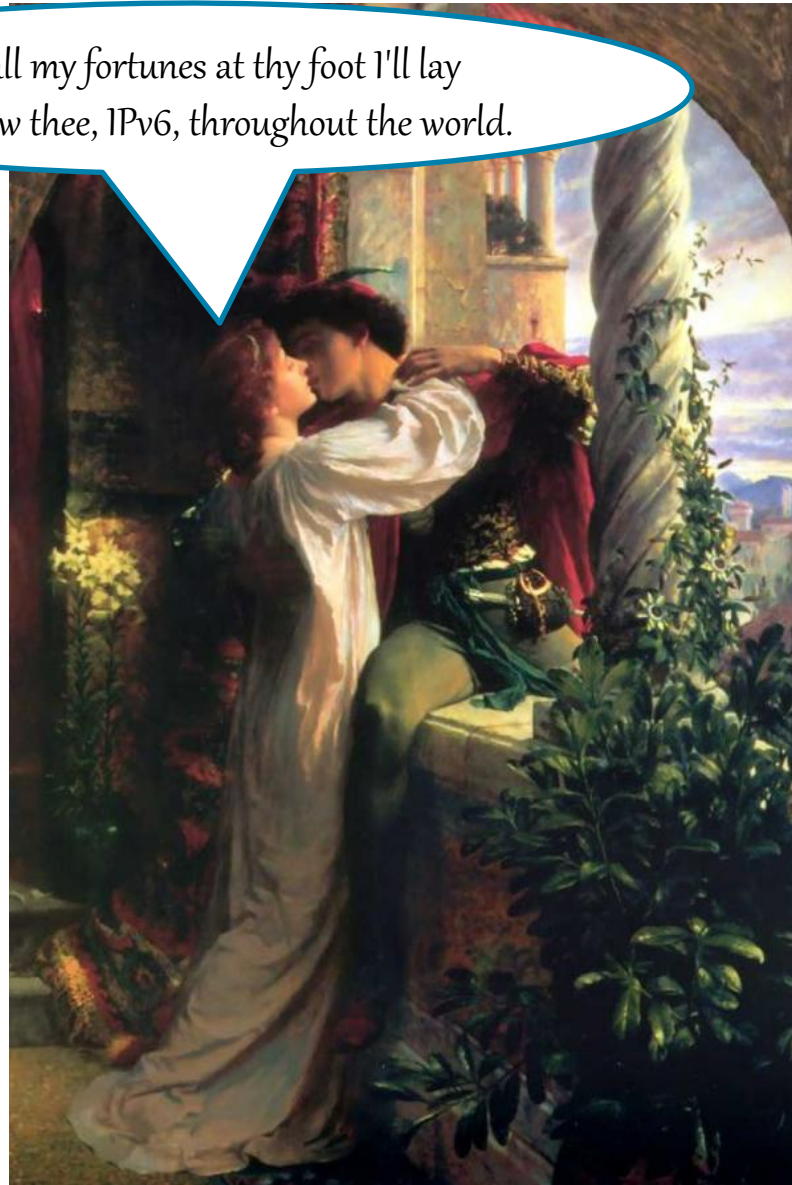
Portals!

VPN
Extensions!

Managed
Services!

M2M!

And more!



Sir Frank Dicksee , *Romeo and Juliet*