

Tui

Tui Features

- Lets networks connect to each other with IPv6
 - Only needs IPv4 between providers
 - Does not require a full mesh of statically configured tunnels
 - Simple to implement in your network

Tui Features

- Lets networks connect to the WIX and APE IPv6 bits
- Only requires IPv4 to the exchange - if you can get to the NZ-only stuff on Citylink, it'll work

Tui Features

- Gives networks a 6to4 and Teredo relay

Tui requirements

- Some kind of IPv6 transit
 - Tui is the tunnel end point for an IPv6 tunnel from a provider; or
 - One of your routers is the tunnel end point for an IPv6 tunnel from a provider; or
 - You have native IPv6 transit
- IPv4
 - One IPv4 address
 - One ethernet port
 - One (or more) iBGP session to your gear

Tui routing

- Tui advertises in to your network:
 - 2002::/16
 - 2001::/32
 - 192.88.99.0/24
- It will advertise whatever prefixes you give it, to other Tui users

Tui

- Useful for
 - Content providers with IPv6 content
 - IPv4 only ISPs
 - IPv6 capable ISPs
 - IPv6 enabled companies

Tui

- FreeBSD 6.something
- Soekris 4801 (also runs on 4501)
- Quagga version something.or.other
- Miredo 1.0.6 (I think)

Tui is Free

- InternetNZ are awesome, and bought 6 initial boxes
- We're giving them away
 - Tentatively:
 - TelstraClear
 - Orcon
 - AKL University
 - Catalyst (for the .nz boxes I think)
 - ihug (or whatever they're called)
- I'm happy to give people the images to build their own

Tui

- Builds a ‘full mesh’ of 6to4 tunnels by using BGP
- As each Tui advertises prefixes to the Tui route servers, they set the next-hop to be their IPv4-mapped 6to4 address

Tui

- If you have some aversion to Soekris/BSD/Whatever routers, I can give you config for whatever vendor you use
 - Provided it's Cisco
 - Or provided you can give me a box to test config on
 - This is the part where vendors give me free stuff

Tui

- If the box dies, it stops advertising prefixes
- The Teredo and 6to4 relays stop being used, and new relays start being used, without customers noting
 - TCP sessions stay up, IPv6 addresses stay the same



