

Hurricane Electric

What do around 12,000 IPv6 users actually do?

IPv6 Native Backbone – Massive Peering!

APNIC-26 Christchurch, New Zealand 27th August 2008

Martin J. Levy, Director IPv6 Strategy Hurricane Electric

Hurricane Electric – Roots and History

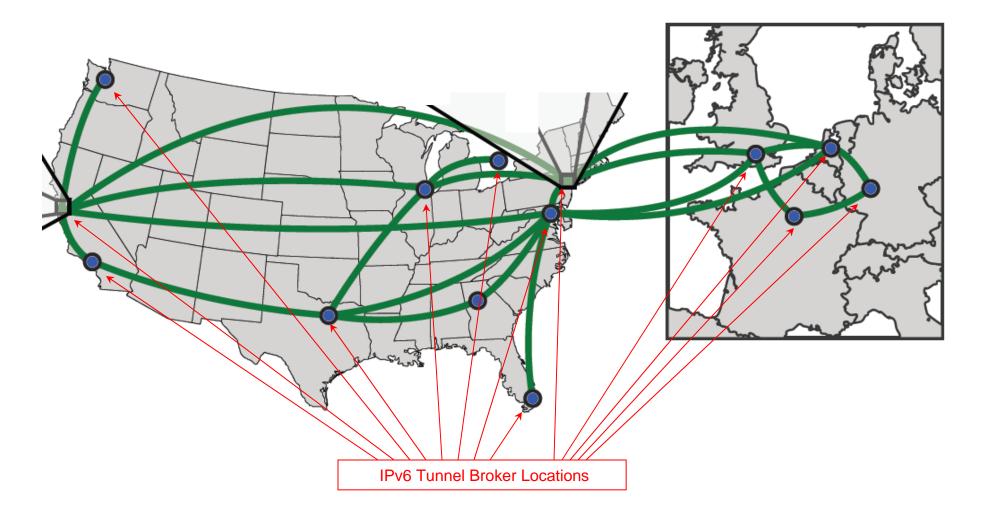
- Founded 14 years ago ISP & datacenter operator
 - Roots within the Silicon Valley high-tech community
 - Nationwide network in 1999
 - Starts IPv6 native and tunnel connectivity in 2001
 - European expansion in 2005
 - Purchased 206,000 sq ft datacenter building in 2006
 - Native IPv6 backbone in Q1 2007
 - Ranked #1 IPv6 backbone for BGP adjacencies in Q1 2008
 - Expands IPv6 TunnelBroker to fourteen US & European cities (and soon in Hong Kong!)
 - Supports and sponsors global open-software projects



Hurricane Electric

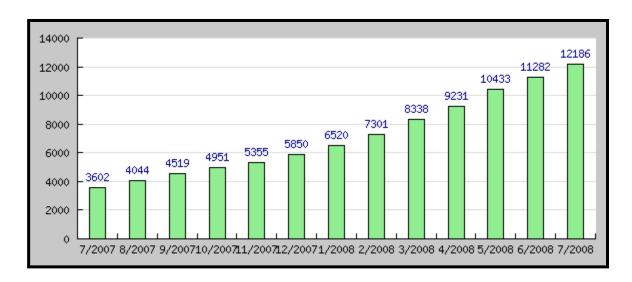
What do 12,000 users who are motivated to use IPv6 actually do?

Hurricane Electric – IPv6 Tunnel Broker

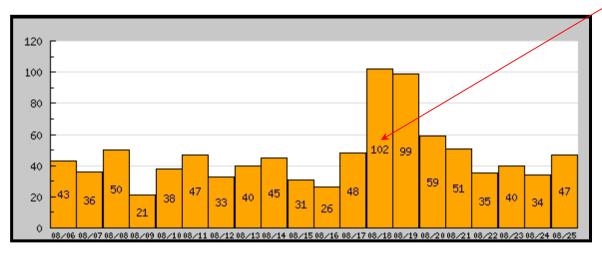


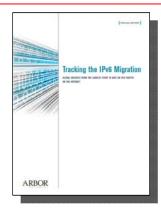


Hurricane Electric – IPv6 Tunnel Broker

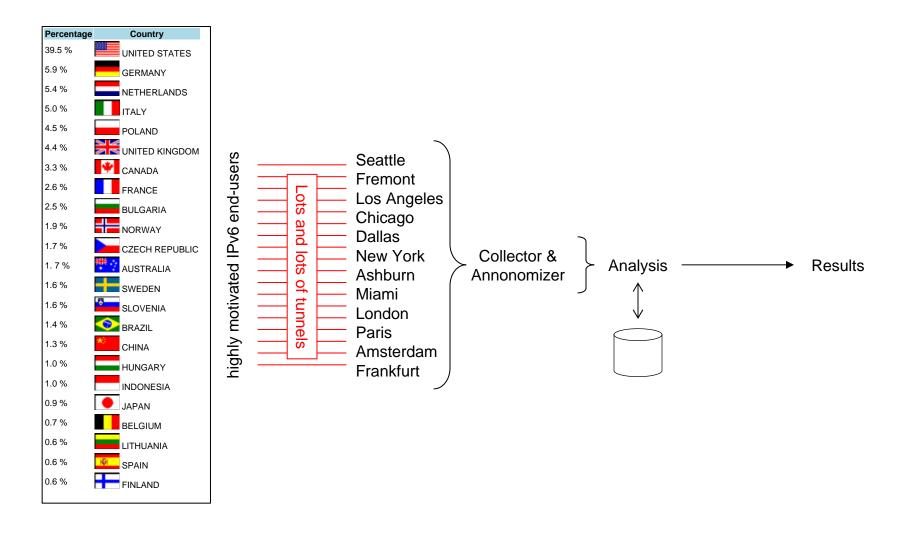


Arbor Networks "Tracking the IPv6 Migration" report released





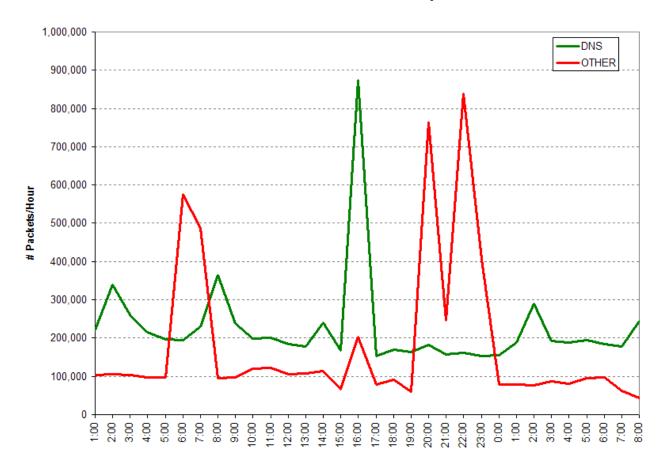
Measuring IPv6 users





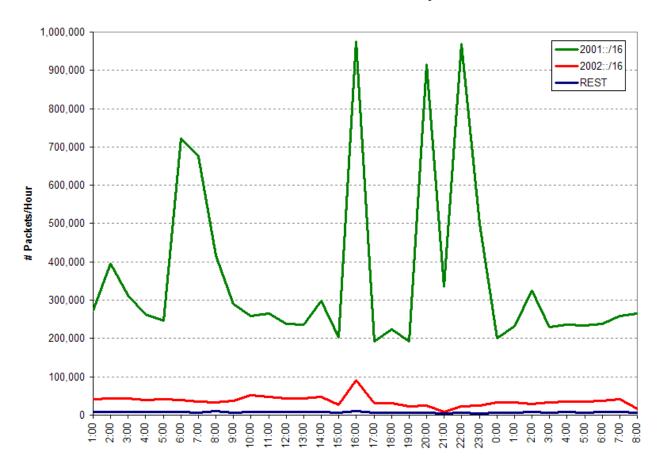
Are IPv6 users normal (what about DNS)?

UDP Port - summed over every location



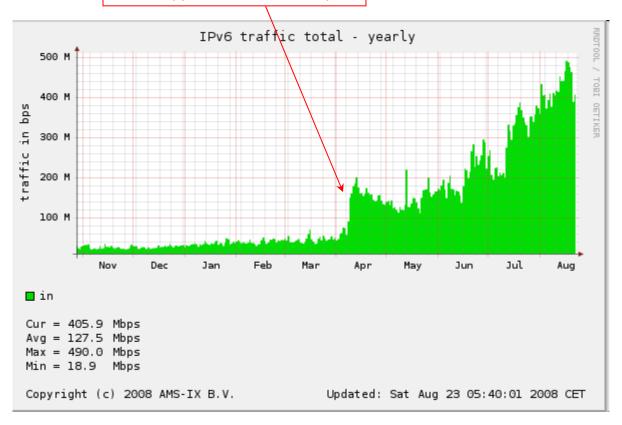
Are IPv6 users normal (what about 6to4)?

UDP Port - summed over every location



Something Extra – AMS-IX IPv6 stats





AMS-IX total traffic is around 100x this traffic level



Q&A



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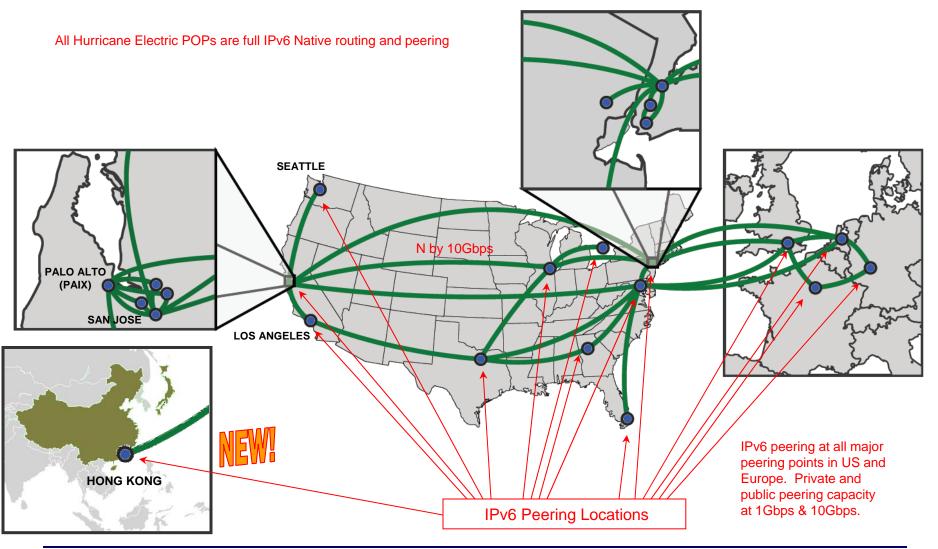
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Background slides

(about Hurricane Electric's IPv6 Backbone)

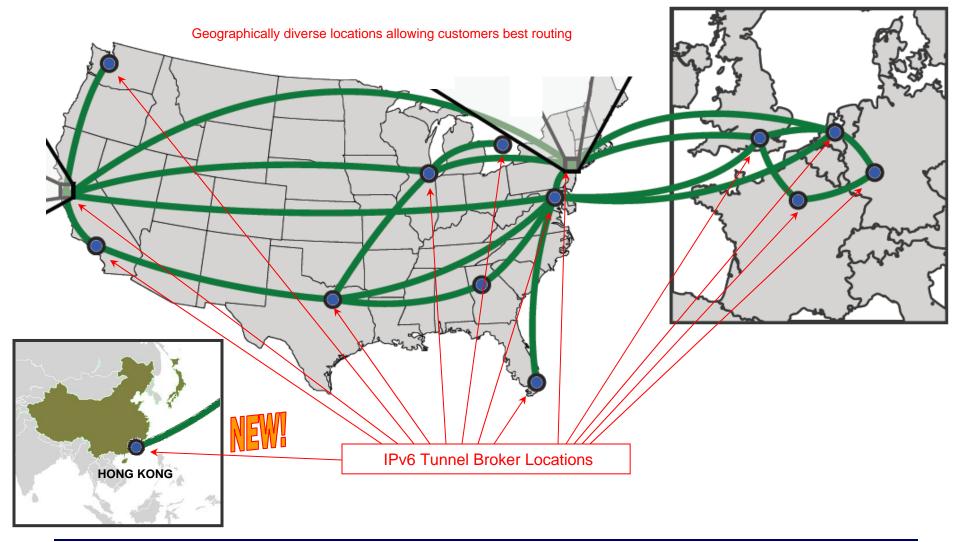


Hurricane Electric – IPv6 Network Reach



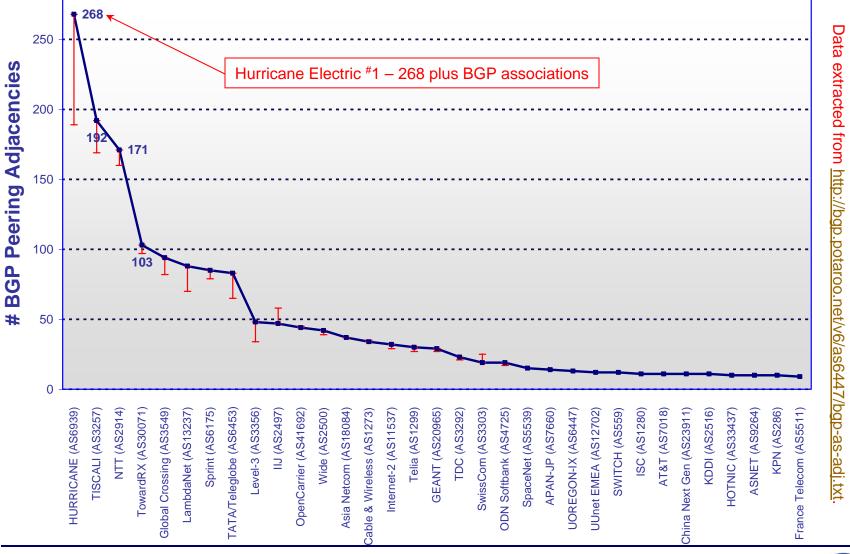


Hurricane Electric – IPv6 Tunnel Broker



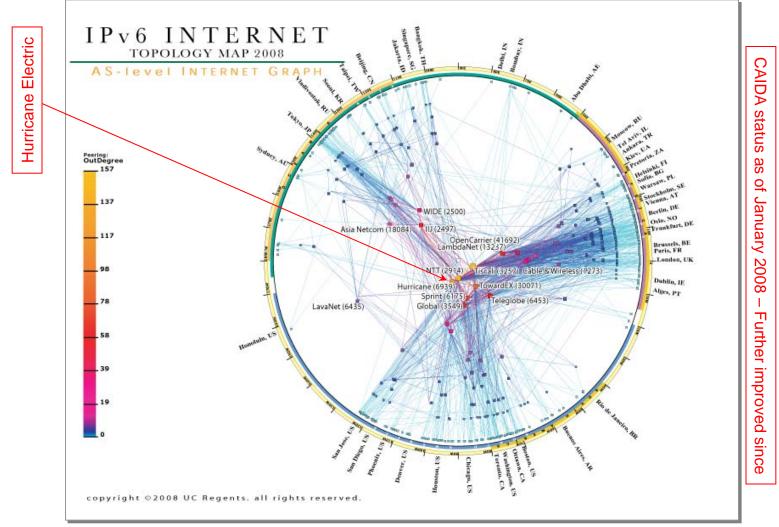


Hurricane Electric – IPv6 Status (Oregon)





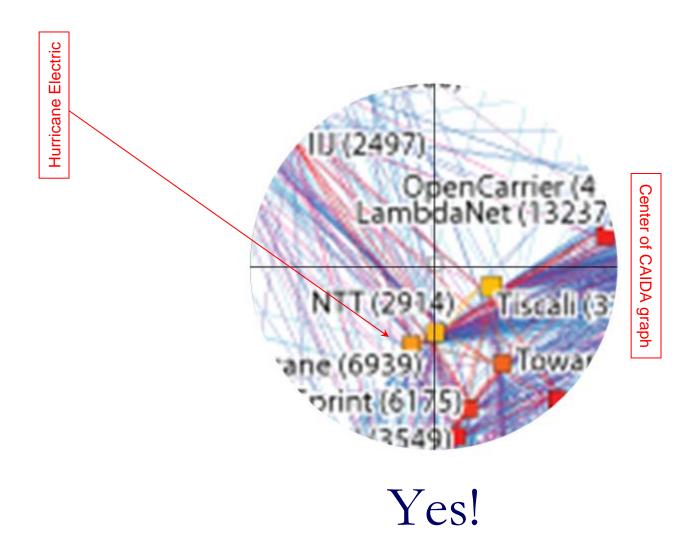
Hurricane Electric – IPv6 Status (CAIDA)



See: http://www.caida.org/research/topology/as_core_network/ipv6.xml for full description and explanation.



Hurricane Electric – IPv6 Status (CAIDA)





Hurricane Electric – TunnelBroker stats

