

Abilene IPv6 Update

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APAN IPv6 Task Force

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Outline

- Still working well – it just works
- Routing changes
- Commercial Transit
- Peering update
- Native Multicast

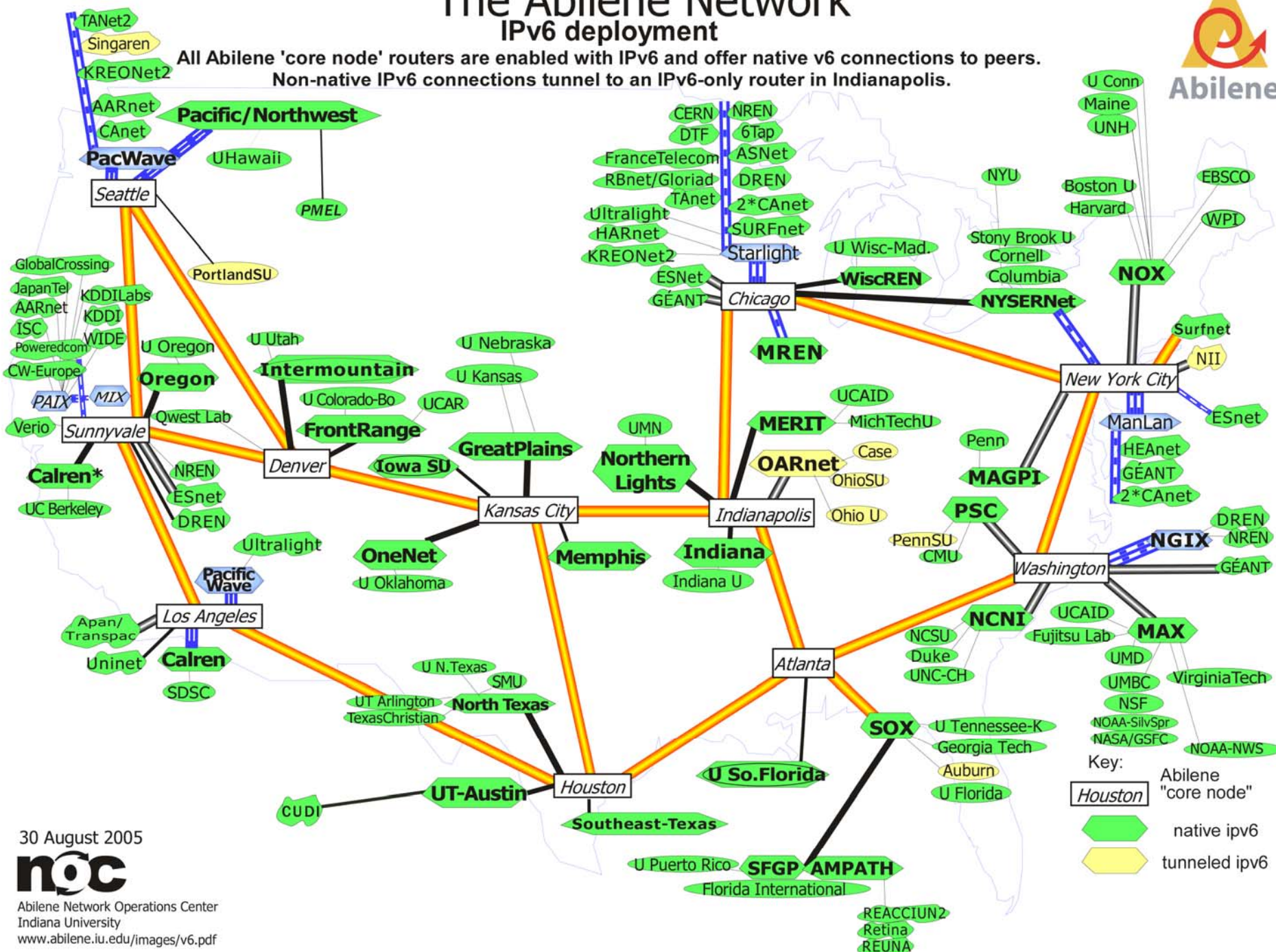
Still Working Well

- Our dual-stack IPv6 network continues to perform well
- As mentioned last time, active testing shows no difference between IPv4 and IPv6 performance
- Changes: improving connectivity to others

The Abilene Network IPv6 deployment



All Abilene 'core node' routers are enabled with IPv6 and offer native v6 connections to peers.
Non-native IPv6 connections tunnel to an IPv6-only router in Indianapolis.



30 August 2005



Abilene Network Operations Center
Indiana University
www.abilene.iu.edu/images/v6.pdf

Routing Changes

- Why: peers seeing transit routes, and for some routing is not optimal. Want to differentiate direct customer routes
- What: tag own customers differently
 - Community strings
- Peers can then decide whether to accept transit routes

Transit

- Want to encourage IPv6 growth
- Abilene was only seeing commercial routes through one Asian peer
 - Sub-optimal routing
- Abilene has decided to purchase transit from Global Crossing, via PAIX
- Should start at the end of this week

Peering Changes

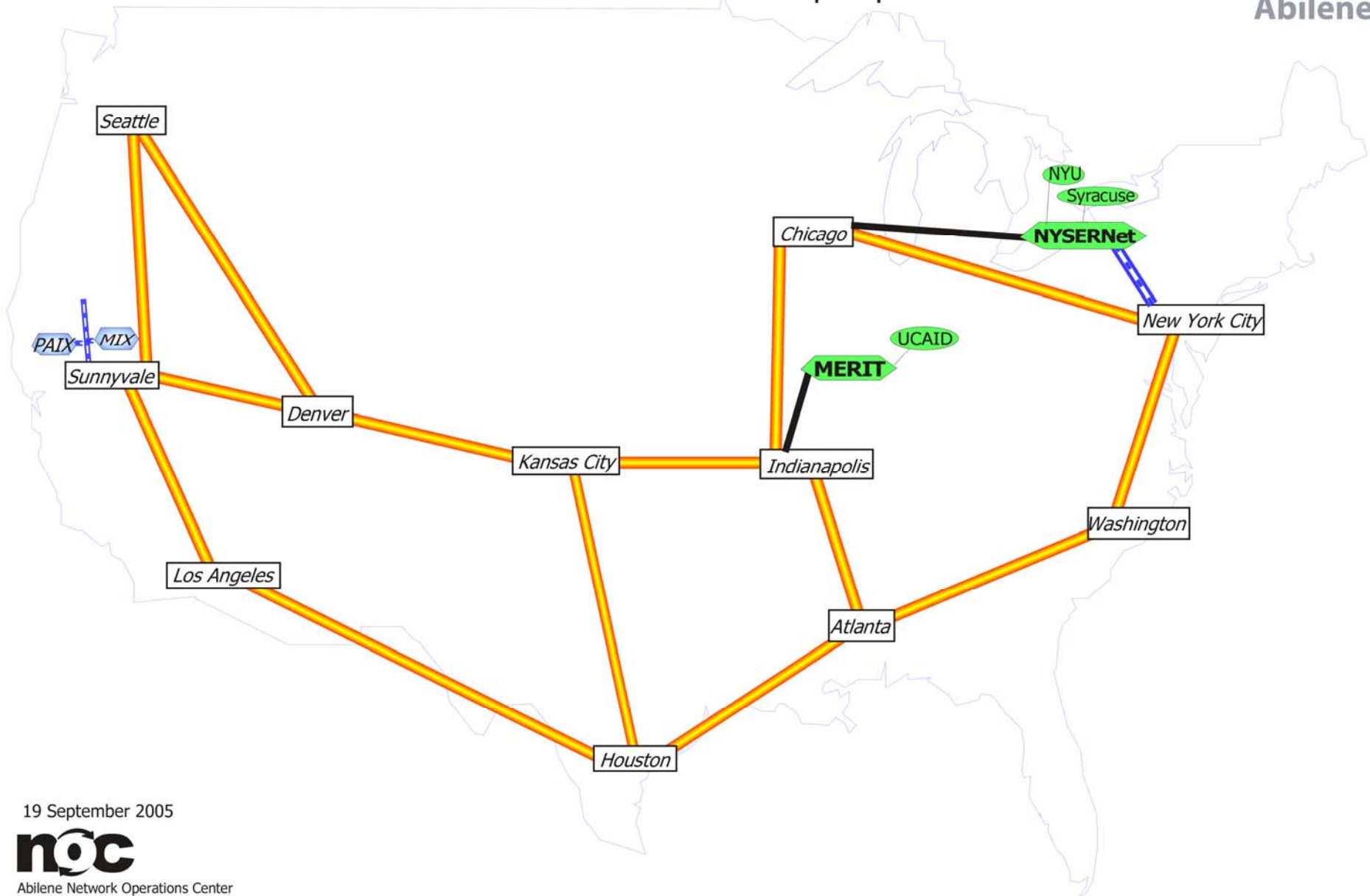
- Added additional commercial peer via PAIX: Speakeasy (www.speakeasy.net)

Native Multicast

- Added native RP to Abilene about 3 months ago
- So far, only participants:
 - NYSERnet (NYU, Syracuse U)
 - Internet2's Ann Arbor office

The Abilene Network

IPv6 Multicast deployment
Native v6 multicast to connectors and participants.



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Indiana University
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Pointers

- IPv6 working group
<http://ipv6.internet2.edu/>
- Abilene
<http://abilene.internet2.edu/>
- Abilene NOC IPv6 Information
<http://www.abilene.iu.edu/advanced.html>

