IPv6 Adoption Experiences

✓ Architectural
  • Selecting a Routing Protocol
  • Dealing with Vendor Readiness (or lack thereof)

✓ Organizational
  • Management Buyoff
  • Inter-department Readiness and Buyoff
IPv6: Architectural Adoption Challenges

• Selecting a Routing Protocol
  ▶ IGP/EGP – ISIS Single Topology and BGPv4+
  ▶ Production Network Stability and Convergence Woes

• Dealing with Vendor Readiness
  ▶ Vendor X and IPv4/IPv6 Feature Parity
  ▶ When the Appliance Model Fails – Of Firewalls and IDS’s
IPv6: Organizational Adoption Challenges

• Management Buyoff
  ▸ CDN – Evolve or Die!
  ▸ Internet Community Participation – NANOG, ARIN, ISOC, IETF

• Inter-department Readiness and Buyoff
  ▸ Getting IPv6 into the Silos – IS, Development, Operations
  ▸ Testing Geolocation and Teaching Concatenation
IPv6: Where We’re Headed

- IPv6 functionality for all standard CDN products
- For Each Silo (Syseng, Ops, Dev, Sales, IS, and Finance/Billing)...
  - Determine IPv6 Status of Critical Applications/Processes
  - Identify/Assign Primary Resource to Handle Deployment Status/Issues
IPv6: Where We’re Headed (cont.)

• Understanding of what is driving customer adoption when requested (or otherwise)
  ‣ May help prioritize LLNW’s IPv6 service offerings
  ‣ May help determine where NAT in the core, broken geolocation, and/or broken DNS resolution may negatively affect existing services

• Ultimately, IPv6 functionality for any LLNW product (or equivalent v4 workaround)
Questions?

Tom Coffeen
Manager of Network Architecture
Limelight Networks, Inc.
tom@llnw.com