



IPv6 CDN Adoption Experiences
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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?

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