

Network Operators Survey

Tom Scholl, AT&T Labs

NANOG 44

What is this survey about?

- What technologies are deployed today
- What practices are being used
- What aren't people doing?
- What problems are people facing?

Filling out this survey will benefit everyone as it will help share knowledge and concerns.

Who is this targeted at?

- Everyone:
 - Network Service Providers
 - Content / Hosting
 - Access Providers
 - Enterprises
 - Anyone else

What types of questions?

- Routing technologies
- Peering
- Operational practices
- Network performance
- Security
- Operator concerns

Routing technologies

- MPLS
 - LDP
 - RSVP-TE
- L2VPN/L3VPN services
 - Impact to routers FIB
 - Impact to control-plane (LDP, BGP)
- IGP
 - Multi-Topology routing
 - SPF timers, hello/dead timers
- Multicast

Peering

- Practices at public exchanges
- Policies applied to/from peers
- Policies on upgrading peering interfaces
- Requirements on peering
- Traffic-Engineering
 - How frequently do you de-pref paths?

Operational practices

- Network/Router maintenance practices
- Network automation
 - NETCONF or Expect-based scripts
 - Router based event-based scripts, TCL scripts
- Network monitoring
 - Cacti, mrtg or home-grown
- SNMP
 - Read and or write?

Network performance

- The demand for fast convergence
 - How fast is enough and who gets it?
- Performance monitoring
- Alarming
 - Commercial products or home-grown
- SLAs?
- Netflow/sFlow

Security

- Packet filters on customer & peering edge
- Control-Plane policing
- BGP FlowSpec
- Customer/Peer prefix-list filters
- Customer/Peer AS-Path filters
- Denying of specific traffic types

Operator concerns

- IGP growth and stability
- BGP/Internet IPv4 growth
- Traffic scaling with existing platforms
 - Multi-chassis?
 - More Gbps per slot?
- SONET/SDH vs Ethernet

The Survey URL

http://www.surveymonkey.com/s.aspx?sm=l3vQRyPRKhfPkbWuzJw5Ww_3d_3d

or

<http://tinyurl.com/47wvcf>

One response per organization, please

Survey is anonymous, no IP addresses saved

Send questions, comments, complaints to:

Tom Scholl, AT&T Labs

tom.scholl@att.com