INEX Operations Update June 2009



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Operations Summary – Exchange Stuff



- 4Gbit/s peak regular traffic in May
 - Down slightly in June summer lull?
 - This doesn't include bursty events namely:
- New record: Supplementary budget streaming peak of 7.2Gbps in April.
- 44 ipv4 / 20 ipv6 peering sessions to route collector
- 2092 ipv4 (<<<) / 32 (>>>) ipv6 prefixes seen
- 28 ASNs now connecting to route servers (<u>65</u>% of members – up 20%); 406 ipv4 prefixes, 46 ipv6 prefixes

Operations Summary – Member Updates

- Welcome to Vodafone Ireland as full members
 - Almost live and will peer with route servers
- Welcome to Cablesurf
 - Hoping to go live in July
- Fastcom have upgraded from 10Mb -> 100Mb
 - INEX now has no members at 10Mb
- Facilitated the transfer of one of Airwire's ports from TCY to DEG for increased resiliency
- Lots of technical pre-sales work with Eileen

Operations Summary – Maintenance

- All production switches were upgraded to IOS 12.2(33)SXI1 during June
 - This now enables ipv6 netflow data export across our production switching platform.
 - Will allow for dynamic IPv6 peering matrix
- On going issue with 10Gb DWDM XFPs reporting wrong speeds resolved
 - Two stage Transmode upgrade in April
- Reminder: cage access in DEG is by appointment only from May 1st 2009.

Operations Summary – IXP Manager

- Provisioning tool originally written by Nick called IXP Manager
- Longer term project: rewrite and new features.
- Currently being rewritten using:
 - Zend Framwork (http://framework.zend.com/)
 - Doctrine ORM (http://www.doctrine-project.org/)
- Live for INEX operations July 2009
- Hope to put member interface live during Q4 2009

Operations Summary – Route Servers

- 65% of members using INEX's route servers
- Two route server instances on each peering LAN located in different data centres
- Importance of these growing in IXP community
- New EURO-IX Router Server Virtual WG
 - Goal to create two stable packages
 - Looking at Quagga, BIRD, OpenBGP
 - Budget and project plan well advanced
 - INEX contributing €1,500 as well as some time
 - Will soon be issuing a call for developers

Operations Summary – IRR Toolset

- Internet Routing Registry Toolset
 - https://www.isc.org/software/IRRtoolset
- Two main applications currently:
 - edge routers in larger network service providers; and
 - at IXPs for route servers
- Allows automated filtering of BGP routes at ingress – it's why INEX's route servers are safe
- Nick has done a massive amount of cruft removal, refactoring and hatchet-ing – current code base is down >60% of original code
- Expect a 5.0.0 release soon



That's all folks...

...any questions?