

TREX Status Update

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TREX Workshop 2011

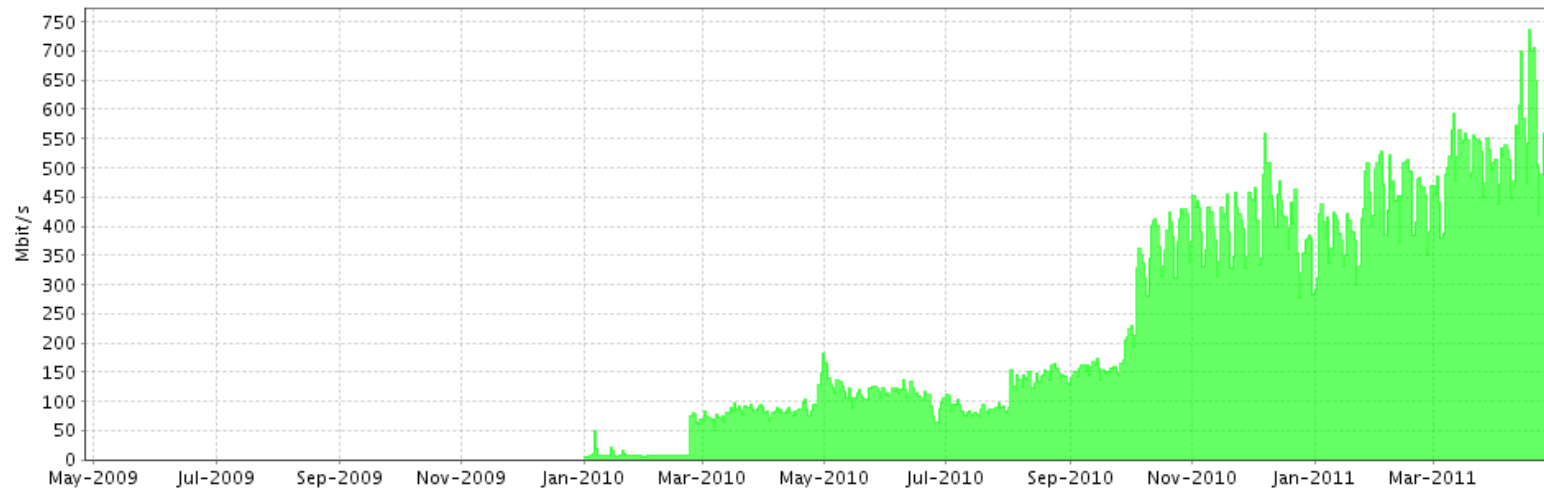
September 16th, 2011



- o Established: 2002
- o Members: 8-10
- o Ports: 11-13
- o Devices: one Arista DCS-7124-S
- o Organized as a Company

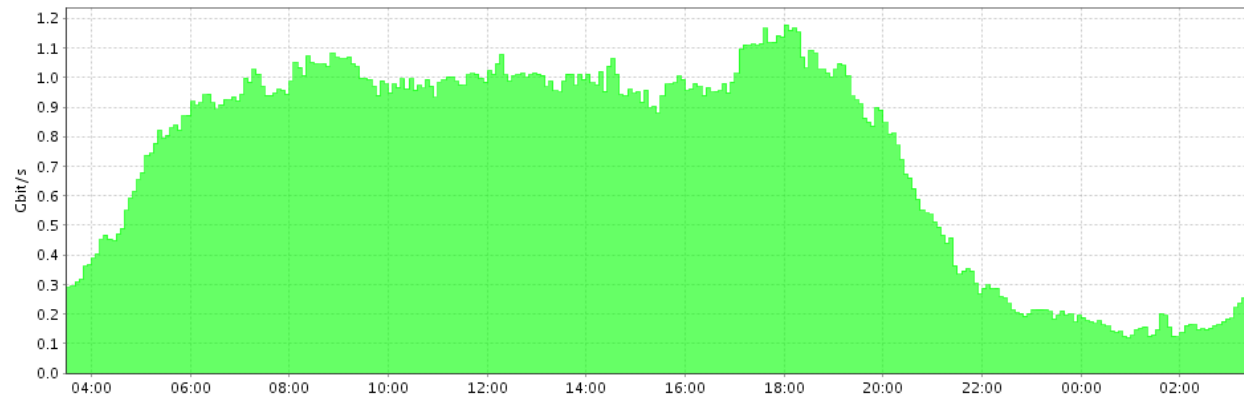
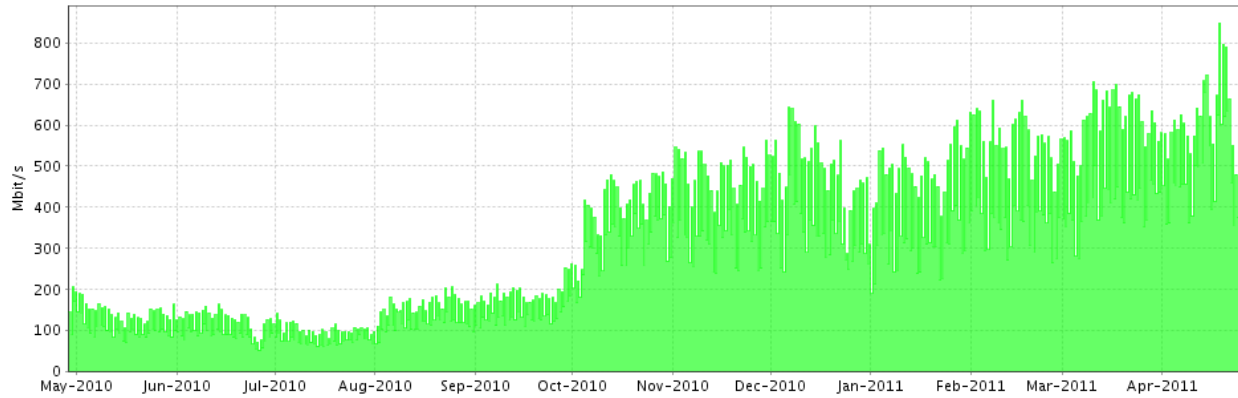
- Peering
- Research
 - New Technologies
- Development
 - New Services
- Market Place
 - Closed User Groups

If You Build It ...



... they took their time to arrive ...

... They Will Come



Growth has been good for the past year.

o Topical Issues

- o February 2009: Multi-Exit Peering
- o February 2010: Virtualization & IPv6 Adoption
- o August/September? 2011: Securing Infrastructure

o Tampere Peering Forum

o Social Event + Sauna(!!)

Research and Development



- Program to create meters for gauging the reliability of the Internet infra-structure
 - Logistics and Banking
 - 2 meals away from anarchy
 - 2005-2006, -2012
 - Inspired by nuclear reactor reliability
 - Mostly funded by a couple of Ministries
 - Research conducted by VTT (Nat'l RC)
- <http://iplu.vtt.fi/>

- ICT SHOK FI, organized by Tivit Oy
 - Nokia, Ericsson, NSN, TeliaSonera, VTT, F-Secure, CSC, ...
 - Aalto Univ, Helsinki Univ, Tampere Univ of Techno, ...
 - 2008-2012
- Part of an international cluster of Future Internet projects
- TREX takes part as a test bed provider
<http://www.future-internet.fi/>

- o Teredo (and 6to4)
 - o AS112
 - o CommunityDNS (FI-ROOT)
 - o Always wanted to run F-ROOT
- <http://www.trex.fi/services.html>

- Operators' recursors found wanting
- Dual-Stacked
 - 195.140.195.21, 2001:67c:2b0::1
 - 195.140.195.22, 2001:67c:2b0::2
- DNSSEC Validating
 - Unbound
 - Bind9

<http://www.trex.fi/service/resolvers.html>

- Test Project with LM Ericsson and TUT
- Part of ICT SHOK Future Internet
- Dual-Stacked
 - 195.140.195.25, 2001:67c:2b0::4
 - 195.140.195.26, 2001:67c:2b0::6
- Public Prefix
 - 2001:67c:2b0:1::/96
 - 2001:67c:2b0:db32::/96?

<http://www.trex.fi/2011/dns64.html>

- Since March 2011
 - Running BIRD and BIRD6 in Linux
 - Plans to run OpenBGPD in OpenBSD on an Arista VM
 - Big thanks to Andy and Will from LONAP
- <http://www.trex.fi/service/mlpa.html>

Question Time

