

TF-NGN IP routing activity Mini Workshop

Brussels VUB - January 14th, 2005

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Agenda

- 13:00 13:15 Welcome and workshop goals - Mauro Campanella
- 13:15 13:50 View on current routing status and issues - Juniper, Jean-Marc Uze
- 13:50 14:25 Tales from the Bandwidth Broker Woods - Cisco, Larry Dunn
- 14:30 14:45 break
- 14:45 15:25 Status of routing research - Olivier Bonaventure
- 15:25 16:00 Better IP routing - Iljitsch van Beijnum
- 16:00 16:30 Bof among presenters and audience about the TF-NGN routing activity (topics, schedule)

Workshop goals

- Provide an overview of current routing status and hot topics/issues from different perspectives
- Discuss the relevance of the activity for NRENs
- Receive ideas and feedback
- Agree on:
 - Relative priority of research topics
 - Agree on a list of research topics for the activity
 - Sketch a time schedule
- Last, but not least, foster participation :-)

List of topics (1st draft)

1. Status of routing (tools and data made available, focus on EU-NRENS)
2. Peering load balance (BGP - tools, analysis)
3. Full routing on dual stack (IPv4 and IPv6) routers
4. Traditional igp (ospf, is-is) behaviour, in particular on highly meshed infrastructure.
5. extensions to IGP protocols
6. Virtual routers testing/usage
7. Terabit routing
8. QoS routing
 - 8a security
 - 8b path computation
9. Dynamically circuit set-up and tear down (interaction with control plane unclear). Take full advantage out of combined packet and circuit switched network.
10. Dynamic reconfiguration of routing and services, allowing the users to act directly
11. (Many) overlay networks (VPNs) routing and interdomain communication as a function of physical topology (i.e. interdomain routing specification for AS distributed on large geographical areas)
12. New protocols ? (long term)
13. World wide/multi layer weather map

Collaboration

Collaboration/exchange of information with:

1. GN2 -JRA3
2. TF-NGN 9.4b (GMPLS), 9.7 (Router testing)
3. DRAGON project (NSF funded - NASA, MIT, Univ. of Southern California, other US Univ.,
4. MUPBED (IST project on GMPLS)
5. Ietf rtgwg, ccamp, ...
6. LASOR project (cisco, calient, JDS-Uniphase, Agility, Stanford, UC santa barbara)
7. RIPE
8. CAIDA
9. APNIC
10. ...

Starting pointers

Midnight sun routing workshop

<http://www.cdt.luth.se/babylon/msrw/>

RIPE IDRWS 2004 (InterDomain Routing Workshop)

<http://www.tm.uka.de/idrws/program.php?year=2004>

IETF routing area working groups

<http://www.ietf.org/html.charters/wg-dir.html#Routing%20Area>

IRTF routing research group (RRG) charter

<http://www.irtf.org/charters/routing.html>

NANOG meetings routing related presentations

<http://www.nanog.org/>

Contact

If interested in participating, please contact
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A mailing list for the activity will be set up soon.