

IP routing work area in TF-NGN (activity 9.3)

Zurich Switch - April 15th, 2005

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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
9. Routing security
10. Path computation
11. Dynamically circuit set-up and tear down (interaction with control plane unclear). Take full advantage out of combined packet and circuit switched network.
12. Dynamic reconfiguration of routing and services, allowing the users to act directly
13. (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)
14. New protocols ? (long term)
15. World wide/multi layer weather map

Collaboration

Collaboration/exchange of information with:

1. GN2 -JRAs
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

TF-NGN routing workshop presentations - Jan 2005

<http://www.terena.nl/tech/task-forces/tf-ngn/routing-ws.html>

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/>

If interested in participating, please contact Mauro.Campanella@garr.it

A mailing list for the activity has been set-up:

tf-routing@garr.it

including an archive and web interface.

Details on the tf-ngn mailing list soon together with the URL of the group web page.