

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

RENATER Paris - July 28th , 2005

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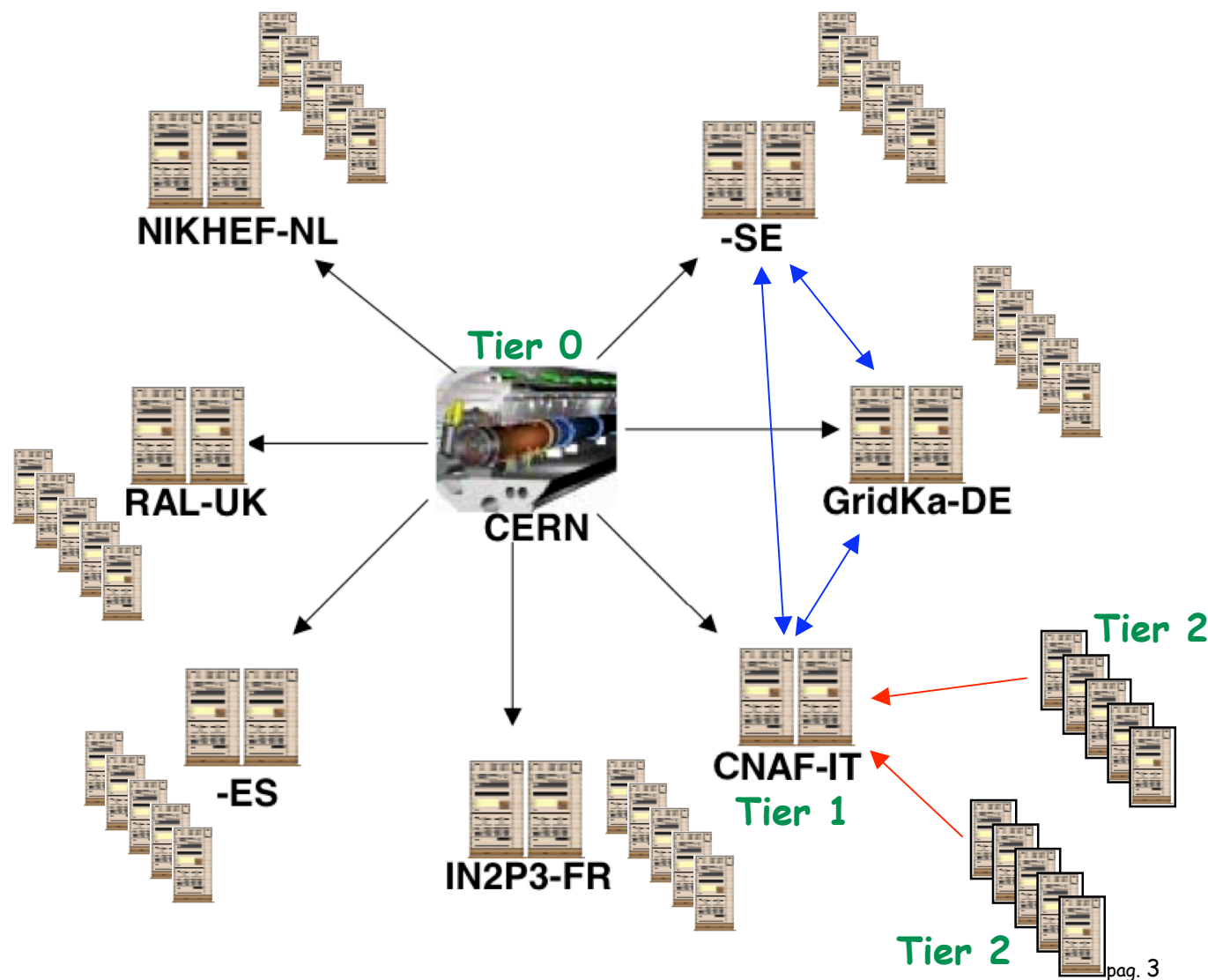
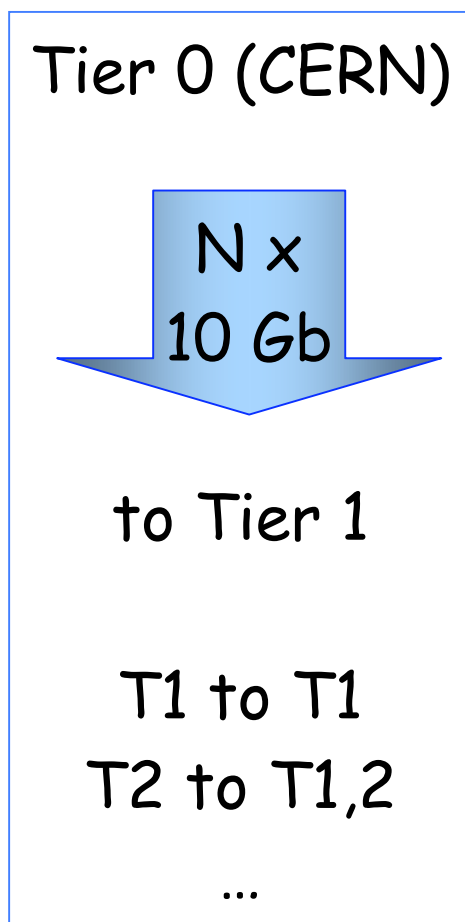
Status

No Term of Reference available yet, proceeding very slowly due to lack of person-time.

Research Items

1. Peering load balance (BGP - tools, analysis)
2. Routing security
3. Dynamically circuit set-up and tear down (interaction with control plane unclear). Take full advantage out of combined packet and circuit switched network.
4. (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)
5. Traffic patterns/evolution ?

Case 4: LHC computing GRID



Cross-Border Fibers

Insubrinet

CH - I cross border
links between
Universities



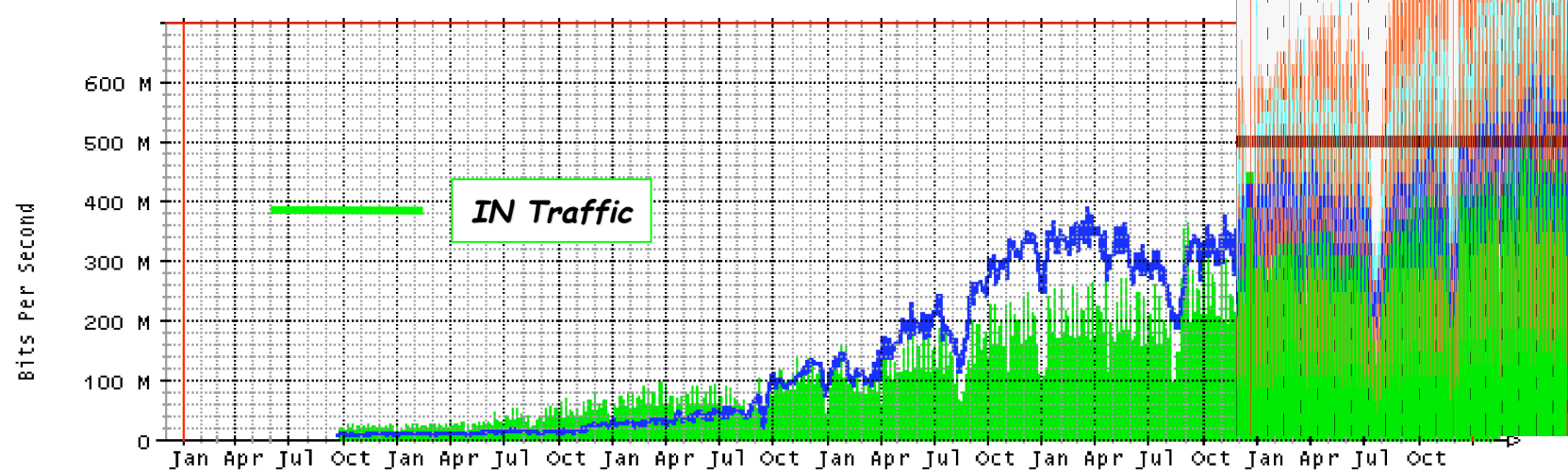
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How to provide resiliency and benefit
from the infrastructure ? (BGP between
private AS numbers in two countries !)

1999 2000 2001 2002 2003 2004 2005

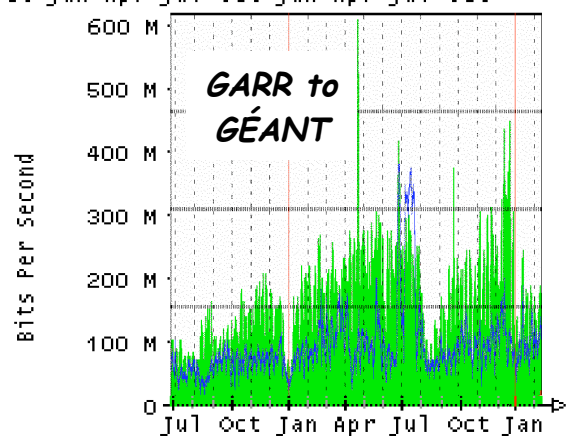
Traffic

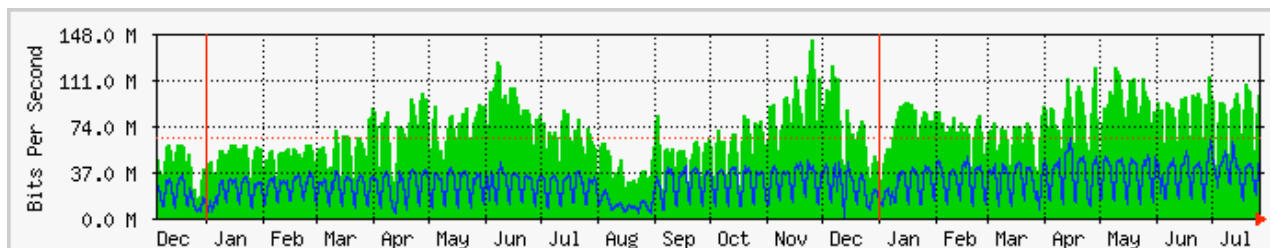
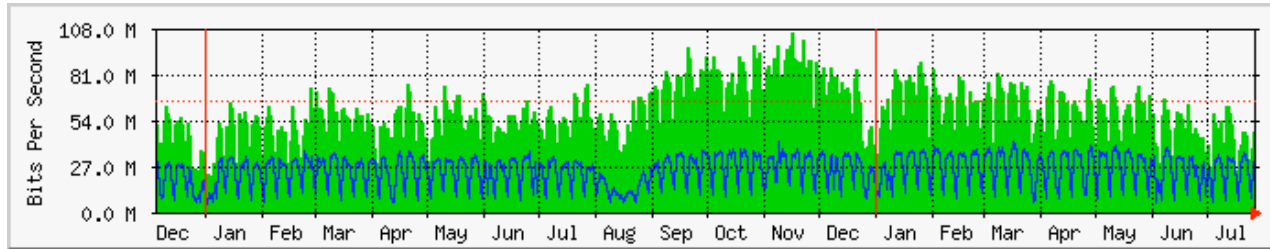
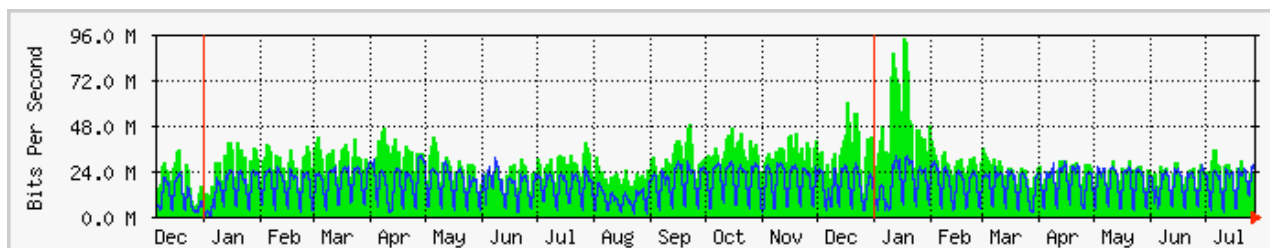
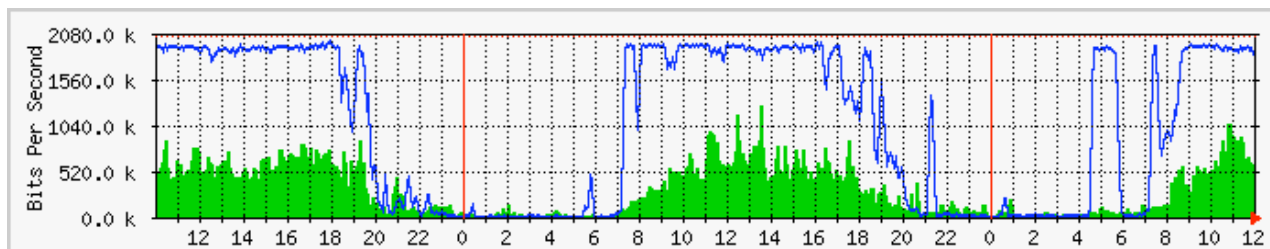
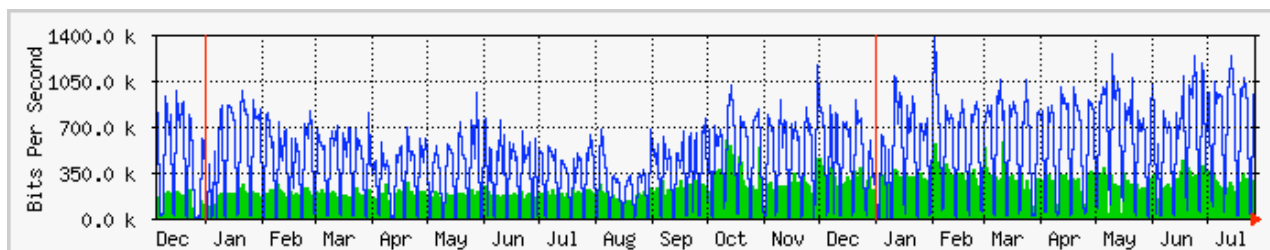
GARR to General Internet



2 Gb/s

Green IN, Blue OUT,
 Orange 5min MAX IN,
 Light blue 5min MAX OUT





Small site
No constant traffic,
but saturated
(beware the averages..)

3 large universities

Next step

Need to start the work.

Suggestions, volunteers ?

Proposal for a videoconference in
September after mail exchange in the
mailing list.

Meeting at next TF-NGN.

Contacts

If interested in participating, please contact

Mauro.Campanella@garr.it

A web page is available set-up at

<http://www.garr.it/tf-routing>

The mailing list used for now is the tf-ngn general one :

tf-ngn@terena.nl