

GTPv6

Budapest, 17-18/10/2002

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Agenda

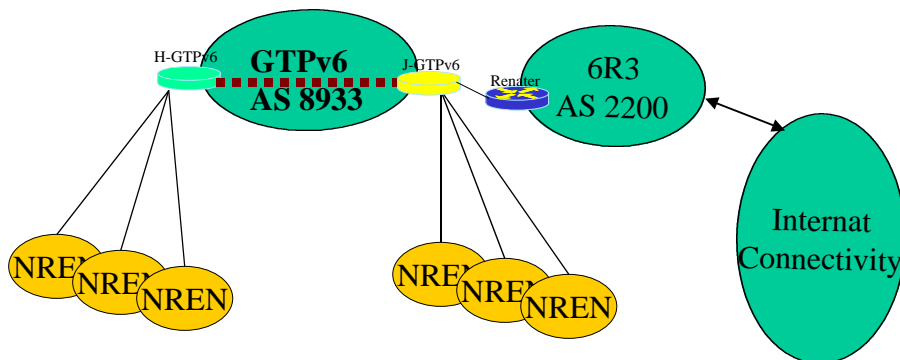
- GTPv6 topology changes
- Virtual lab's ... « steady state »
- M6bone status and new facilities
- Multicast ALG and IPv6 tools available

- *IPv6 Conference in Paris*

GTPv6 : J-M5 status

- *Connected NRENs*
 - Cesnet, CZ
 - HEAnet, IE
 - PSNC, PL
 - RCCN, PT
 - RedIris, ES
 - Renater, FR
 - Restena, LU
 - Switch, CH
- *Connected Orgs*
 - CERN, CH
 - Dante, EU
 - ...

GTPv6: topology changes



Way to achieve this ...

1. Configure the Hi GR2000 in AS 8933
w/ Dante's v4 and 6bone addresses ?
2. Move the J-M5 in AS 8933 too
? Addresses
3. Interconnect both routers
w/ 6in6 or 6in4 ?
4. ? IGP between the 2 routers (ISIS or ?)
5. Configure them for multicast v6
6. Decide how to share the NRENs connections between the 2 routers
7. Test RP functions on Hi GR2000 and J-M5
8. Decide which to use then keeping
=> more than 10 sites in the M6bone are not connected to GTPv6
yet ... and need an RP
9. ? Relationship with 6Net multicast experiment

Virtual Lab

- Renater will provide the support for maintaining the M5 up and running
- Ask for a period of tests
- Write a short note about what you intend to do, who is participating, which resources you need ...
- Run your tests
- Write a short report on the results and observations.

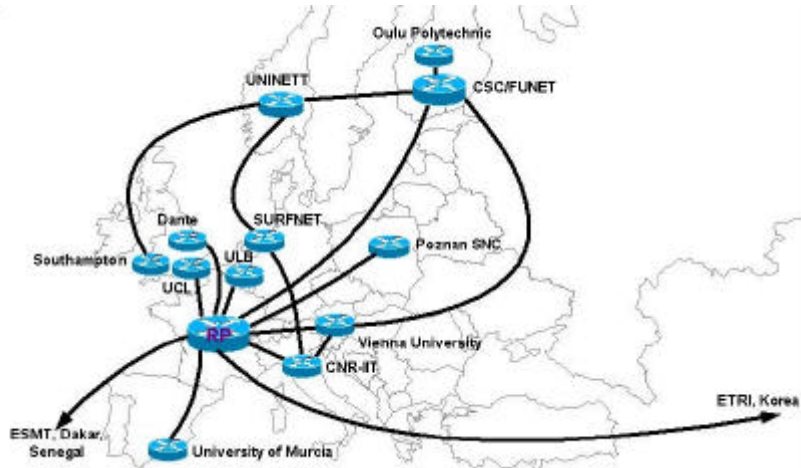
M6bone status

- <http://sem2.renater.fr/m6bone/>
 - And later ... <http://www.m6bone.net/>
- # 25 connections over 11 countries
- Routers
 - 6WIND
 - *BSD + KAME snapshot (4.04.2002)
 - Cisco : some platforms (IOS : multicast EFT 29.08.2002)
- Hosts
 - More or less every host with a IPv6 stack implementing MLD

M6bone protocols

- RIPng in the tunnels
 - prefixes filtering
- PIM SM (PIM SSM)
- MLDv1 (MLDv2)

International sites

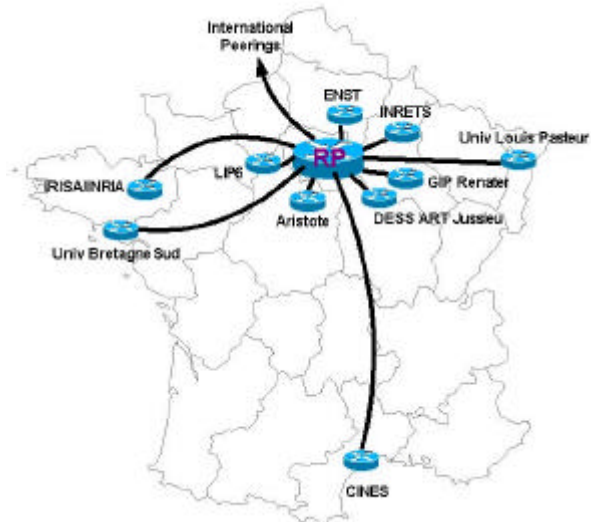


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French sites



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Multicast ALG and applications

- Goal : provide a bidirectional application level gateway for IP multicast
 - Both directions are allowed :
 - From IPv4 to IPv6 multicast
 - ...and vice versa
- Applications :
 - SDR, VIC, RAT
 - NTE (new Windows version : <http://www-rp.lip6.fr/~kabassan/>)
 - ISABEL v6 is under evaluation/tests

M6bone follow up

- Experiments are going on with PIM SM
- With multiple RPs (L. Beurton's code)
- Permanent source : FF0E::2:AE3E/57294
 - High BW TV (1,5 Mb/s)
- Topology enhancements
 - Backup link (connected to the RP ?)
- Experiments should restart with PIM SSM
- The X-Aristote seminar are now broadcasted over IPv4 using the v6/v4 gateway to broadcast to the M6bone
- Later on this year –hopefully- we'll do the other way around !

M6bone monitoring

- <http://pasillo.renater.fr/m6bone/index.html>
 - Links status
 - Pseudo Looking Glass for the RP router
- Beacon :
 - Install a client on every LAN
 - <http://dast.nlanr.net/Projects/Beacon/>
 - Server : <http://beaconserver.m6bone.pl> (IPv6 only !)

To participate ...

- Mailing list
 - m6bone@ml.renater.fr
 - Subscribe : m6bone-request@ml.renater.fr
- Info
 - <http://sem2.renater.fr/m6bone>
 - <http://www.m6bone.net/>

IPv6 Conference in Paris ! last announcement !

- 29 – 30th October
- ENSAM
 - 151 Boulevard de l'Hôpital 75013 Paris
- 28th October
 - Tutorials
- More than 150 people already registered ...

? or



Thank You !