



Enabling Grids for E-science

IPv6 testbed demonstration

Xavier Jeannin (CNRS UREC – EGEE-SA2)

IPv6 meeting – 2007-02-19 @ GARR (Rome)

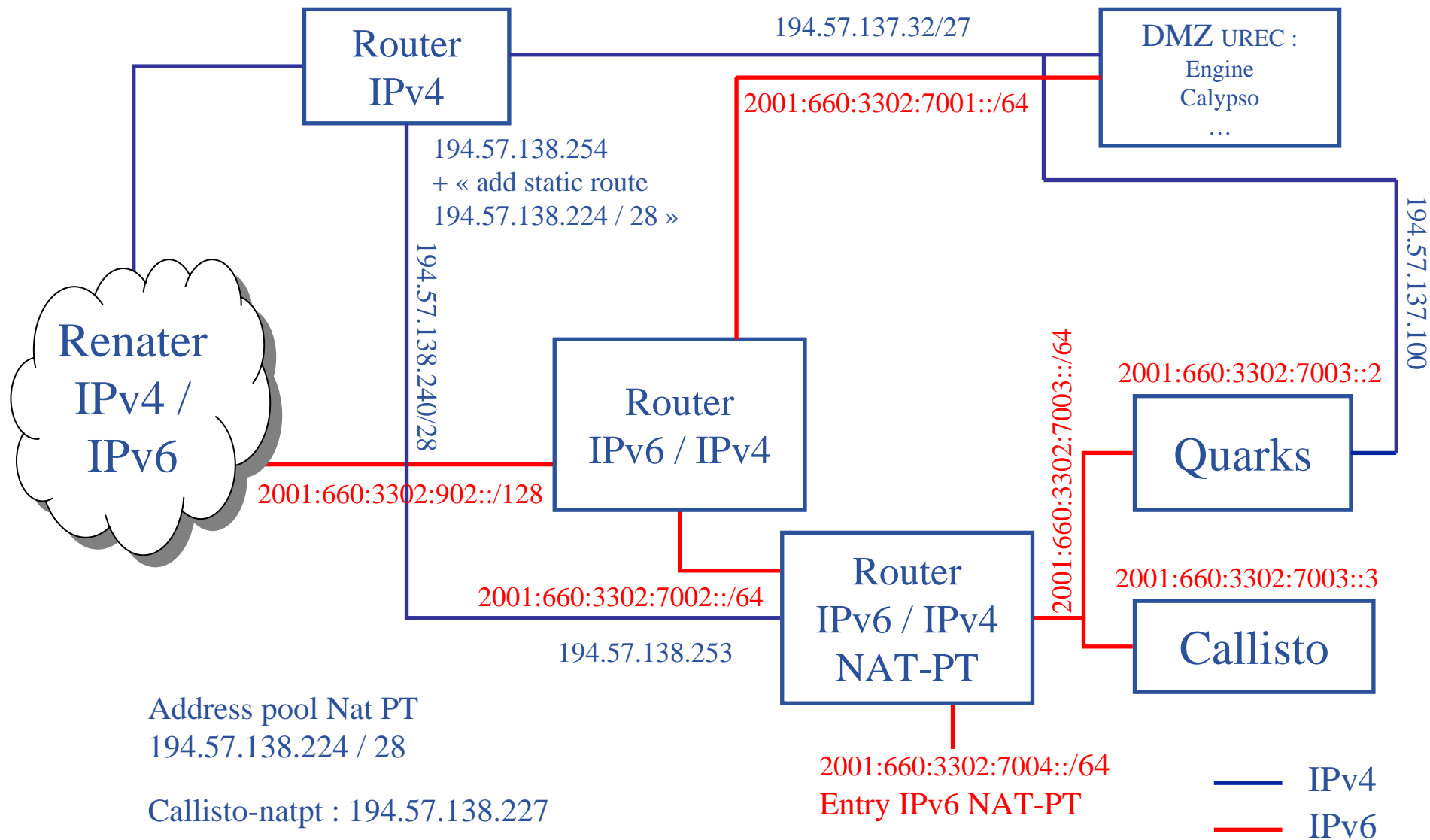
www.eu-egee.org

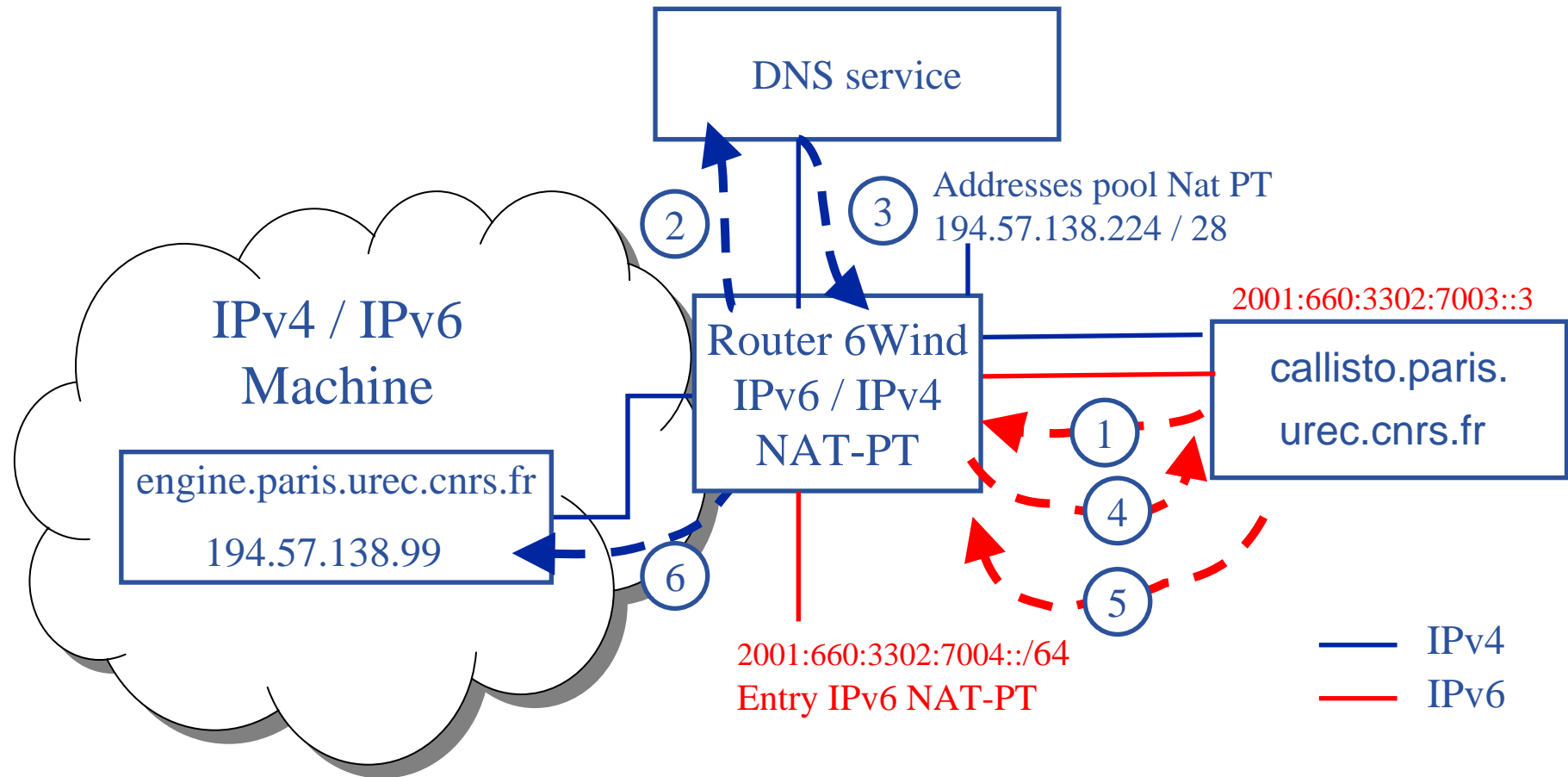


Information Society
and Media

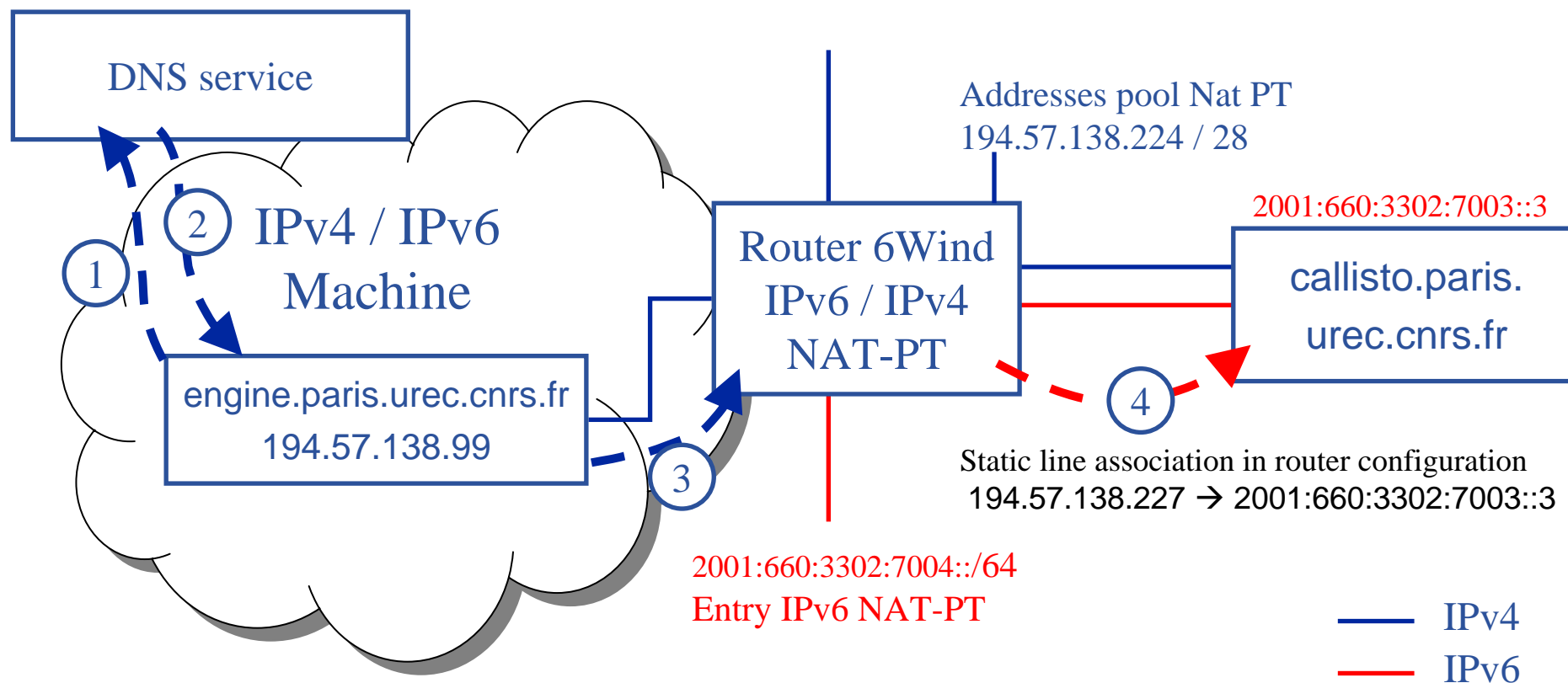


- **Testbed architecture**
- **A brief explanation of NAT-PT principle**
- **Demonstration**
 - Connectivity test of the IPv6 machine and an IPv4 machine (NAT-PT behaviour)
 - The network daemon configuration of the top level BDII server
 - The BDII server collects information from the EGEE IPv4 grid nodes through NAT-PT
 - An IPv4 machine retrieves information from the IPv6 BDII server through NAT-PT





- `engine.paris.urec.cnrs.fr` thinks it talks to `194.57.138.230`
- `callisto.paris.urec.cnrs.fr` thinks it talks to `2001:660:3302:7004::c239:8A63`



- engine.paris.urec.cnrs.fr thinks it talks to 194.57.138.227 (callisto-natpt)
- callisto.paris.urec.cnrs.fr thinks it talks to 2001:660:3302:7004::c239:8A63

- **The machine Callisto hosts a BDII server that was patched to work on IPv6.**
 - We will use the machine engine.paris.urec.cnrs.fr (194.57.138.99) as BDII client to retrieve information on IPv4 / NAT-PT and on IPv6.
 - We will check the behaviour of the BDII server on callisto.paris.urec.cnrs.fr.

- **List of tests:**
 - Connectivity test of the IPv6 machine and an IPv4 machine (NAT-PT behaviour);
 - The network daemon configuration of the top level BDII server;
 - The BDII server collects information from the EGEE IPv4 grid nodes through NAT-PT;
 - An IPv4 machine retrieves information from the IPv6 BDII server through NAT-PT;
 - An IPv6 machine retrieves information from the IPv6 BDII server through NAT-PT.