



Consortium GARR

Mauro Campanella Gloria Vuagnin



EGEE is proposed as a project funded by the European Union under contract IST-2003-508833

JRA4 SA2 F2F UCL -11 Dec 2003 - 1





GARR is the Italian Research and Education Network

It connect all Universities and research entities in Italy (about 300 institutions) for a total of 1 million users.

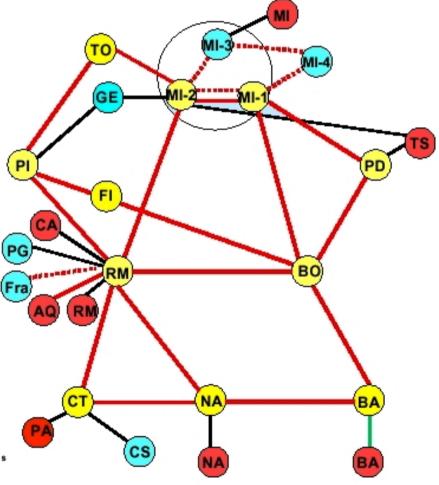
The GARR-G network is under deployment and it is based on a optical backbone at 2,5 Gb/s with access links up to 1 Gb/s.

GARR manages the network using an internal NOC.

IPv6, Multicast enabled Premium deployment soon.

SDH 34 Mbps SDH 2 x 34 Mbps SDH 155 Mbps Fibra Lambda 2.5 Gbps Lambda 10 Gbps







Relevant Projects/Activities GARR is participating



- EGEE-JRA4 with 0.5+0.5 FTE in
 - Bandwidth allocation and Reservation
 - Network performance monitoring and diagnostic tools
- GN2 in
 - SA3 : e2e QoS starts with Premium IP
 - JRA1 : Monitoring Full architecture and tests
 - JRA2 : Security NOT AAA
 - JRA3 : New services starts with MPLS e2e (BE/with QoS)
 - JRA4 : testbed and Optical research
- Other proposed FP6 projects dealing with similar issues:
 - GARDEN (Cisco)
 - GRANDE (T-System)
 - MUPPET (Marconi)



GARR expertise and possible contribution



- Expertise:
 - Engineering and managing a large and advanced country-wide IP packet switched network.
 - Advanced experience on MPLS (for DataTAG), QoS (Sequin), NetFlow (developed in-house production monitoring system).
- GARR interests and contributions to:
 - advanced and diffuse monitoring system
 - definition of relevant interfaces to middleware
 - analysis of middleware network requirements
 - devise a strategy for a BoD prototype implementation on current networks using available techniques (MPLS, QoS,...)
 - full support to GRID users (in particular HEP) for use cases





GARR is in a position to contribute to the definition of the interfaces from both its sides.

Warnings: GN2 starts 6 months later and the milestones in the two projects are even farther apart

The other FP6 projects (in the call for testbed for research networks) have an even more shifted timescale