RIPE 67
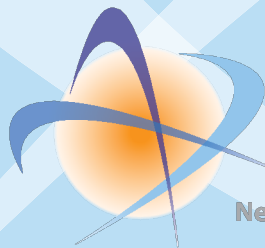
Welcome by the host

Yannis Mitsos[1] ymitsos@noc.grnet.gr

[1]Greek Research and Technology Network
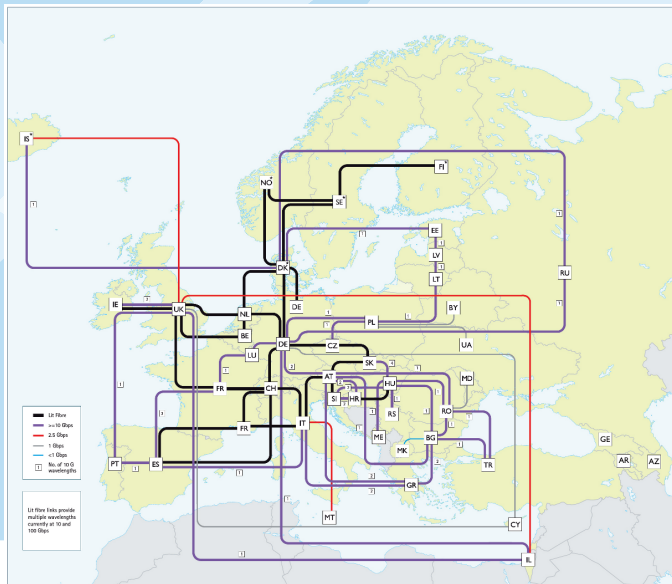
October 2013

grnet

Διασυνδέοντας την Έρευνα και την Εκπαίδευση
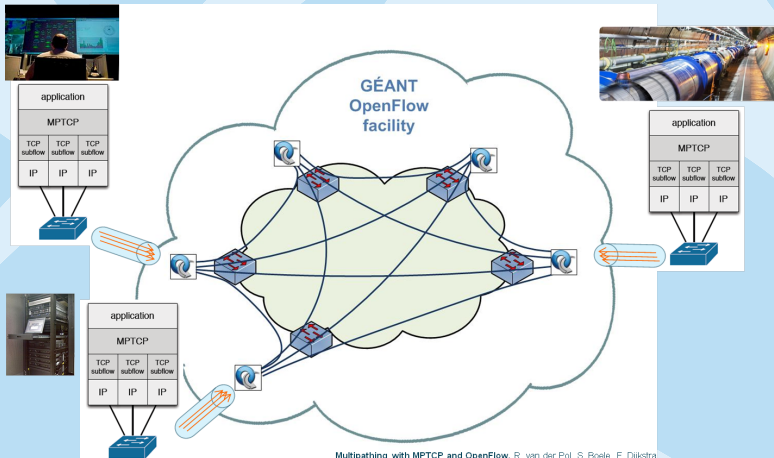
NRENs Mission and Objectives

pan-European Community

Backbone topology as at August 2013. GÉANT is operated by DANTE on behalf of Europe's NRENs.

LHCONE use case

Multipathing with MPTCP and OpenFlow, R. van der Pol, S. Boele, F. Dijkstra,
A. Barczyk, G. van Malensteinz, J. H. Chenx and J. Mambretti
https://noc.sara.nl/nrg/publications/SRS-2012-multipath.pdf

Innovative services for the R&E community

grnet
Firewall on Demand

Firewall on Demand

Enables GRNET customers to filter or mitigate flows with non-legitimate traffic (DoS/DDoS) targeting their border router or internal networks.

RFC5575 BGP-Flowspec

A Border Gateway Protocol Network Layer Reachability Information (BGP NLRI) encoding format that can be used to distribute traffic flow specifications.

grnet
Διασυνδέοντας την Έρευνα και την Εκπαίδευση

Innovative services for the R&E community

Firewall on Demand

Enables GRNET customers to filter or mitigate flows with non-legitimate traffic (DoS/DDoS) targeting their border router or internal networks.

RFC5575 BGP-Flowspec

A Border Gateway Protocol Network Layer Reachability Information (BGP NLRI) encoding format that can be used to distribute traffic flow specifications.

DNSSEC deployments

According to a study carried out by CircleID[1] regarding DNSSEC deployement, the GRNET ADSL student service ranks 3rd worlwide.

- ▶ 97.28% of the user base perfromed *always* DNSSEC validation;
- ▶ 0.84% of the user base perfromed *some* DNSSEC validation;
- ▶ 1.88% of the user base *did* not perfrom DNSSEC validation.

99.16% of the DNSSEC loyal users utilised explicitly GRNET servers while a 0.63% only Google's Public DNS servers.

---

[1] http://www.circleid.com/posts/20130717_dns_dnssec_and_googles_public_dns_service/

Cloud services for the R&E community

Computational

Networking

Virtual disks

Security

grnet
Διασυνδέοντας την Έρευνα και την Εκπαίδευση

Cloud services for the R&E community

Computational

Networking

IP√6

Virtual disks

Security

grnet
Διασυνδέοντας την Έρευνα και την Εκπαίδευση

Federated services

Single Sign On infrastructure

relies on SAML 2.0 and enables the trustworthy exchange of information related to identity, authentication and authorisation of users within a federation.

eduroam

is the secure, world-wide roaming access service developed for the international research and education community.

Thank you