cNIS

A topology information service

GÉANT

connect • communicate • collaborate

1 System functions

Collected data available for other services

Data stored in a database

3

2

Services
(services that require network topology information)
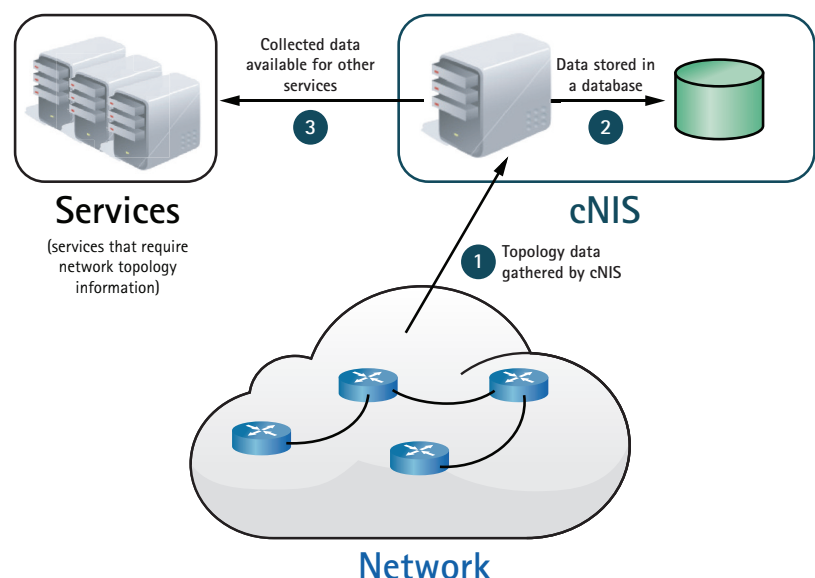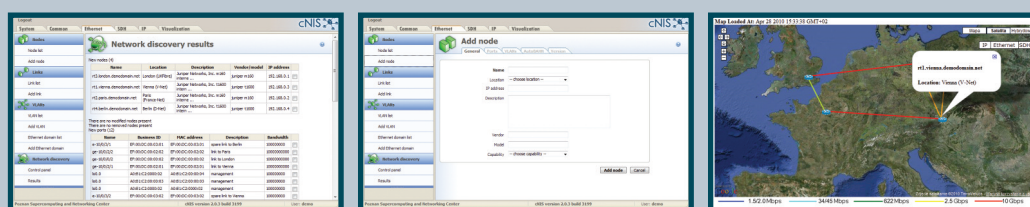
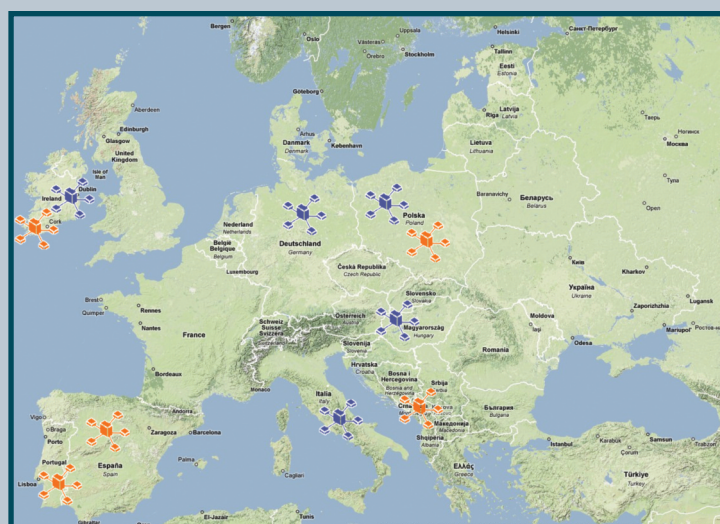**cNIS**

1 Topology data gathered by cNIS

Network

2 Features

- Suport for common network technologies like IP, Ethernet and SDH
- Automatic network discovery extensible with plug-ins
- Network maps and diagrams
- Interactive visualization of inter-layer relationships
- Web-based graphical user interface

3 Deployments

FCCN
Portugal

cNIS provides data of 14 IP routers and 54 switch devices

HEAnet
Ireland

cNIS provides data of 30 IP routers and switch devices

MREN
Montenegro

cNIS provides data of 32 IP routers and switch devices

PIONIER
Poland

cNIS provides data of 4 core IP routers and 24 links

RedIRIS
Spain

cNIS provides data of 18 IP routers and switch devices (Juniper i Cisco)

4 Future plans

- Further cNIS rollout in NRENs
- Constant application improvements based on test and pilot deployments
- Support for new technologies, incl. IPv6, DWDM, MPLS and GMPLS
- Enhanced interoperability thanks to standardized information models
- Heading towards the unified application suite supporting multidomain services

5 Join cNIS community

- Get technical support for installation, configuration and maintenance phase
- Request new features and requirements
- Share your ideas with the rest of the cNIS community
- Collaborate with the development team on cNIS extensions
- Access the in-class trainings and e-courses

DANTE
www.dante.net

http://cnis.geant.net
http://forge.geant.net/cnis