cNIS
A topology information service

1 System functions

- Services
  - Services that require network topology information

- cNIS
  - Topology data gathered by cNIS

- Network
  - Collected data available for other services
  - Data stored in a database

2 Features

- Support 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

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

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