

Software Development and Governance in Geant3 project activities

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PSNC is a partner in following FP7 projects (1)



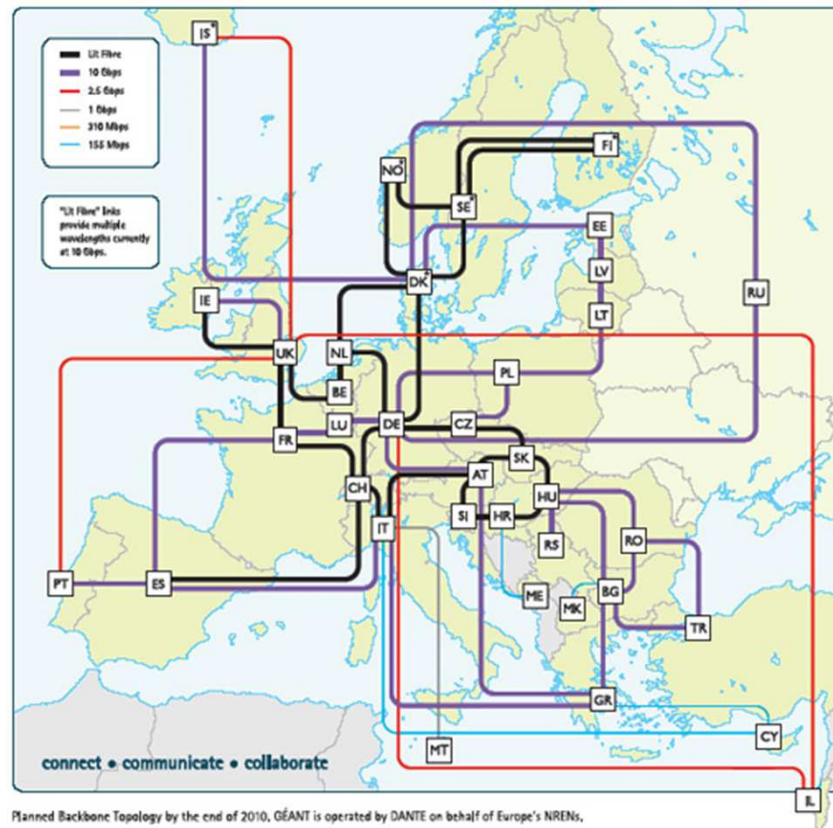
- DORII (<http://www.dorii.eu/>) – coordinator role
- PRACE (<http://www.prace-project.eu/>)
- FEDERICA (<http://www.fp7-federica.eu/>)
- BALTICGRID (<http://www.balticgrid.org/>)
- EUFORIA (<http://www.euforia-project.eu/>)
- OGF-EUROPE (<http://www.ogfeurope.eu/>)
- e-IRG SP2 (<http://www.e-irg.eu/>)
- EGEE III (<http://www.eu-egee.org/>)
- ICT WIELKOPOLSKA (<http://wklaster.pl/ict>)
- HPC EUROPA 3 (<http://www.hpc-europa.org/>)
- POZNIGHT (<http://www.nocnaukowcow.pl/>)
- GEYSERS (<http://www.geysers.eu/>)

PSNC is a partner in following FP7 projects (2)



- IMPACT (<http://www.impact-project.eu/>)
- MAPPER (<http://www.mapper-project.eu>)
- e-IRG SP3 (<http://www.e-irg.eu/>)
- NEXPRES (<http://nexpres.eu/>)
- IGE (<http://www.ige-project.eu/>)
- EURATOM
- EG-InSPIRE (<http://www.egi.eu/projects/egi-inspire/>)
- NOVI (<http://www.fp7-novi.eu/>)
- AirPROM (<http://www.comlab.ox.ac.uk/projects/AirPROM/>)
- WF4ever (<http://www.wf4ever-project.org>)
- **GÉANT3** (<http://www.geant.net>)

www.geant.net



- Multi – Domain Network Services
 - operational deployments
- Served by numerous NRENs across Europe
- Services based on developed tools
 - GÉANT Dynamic Connectivity Service (AutoBAHN)
 - GÉANT Static Connectivity Service (I-SHARe)

HADES

cNIS

perfSONAR LS

perfSONAR AS

RRD MA

AutoBAHN

TACAR

perfSONAR SSH MP

AMPS

I-SHARE

perfSONAR SQL MA

oppd

E2Emon MP

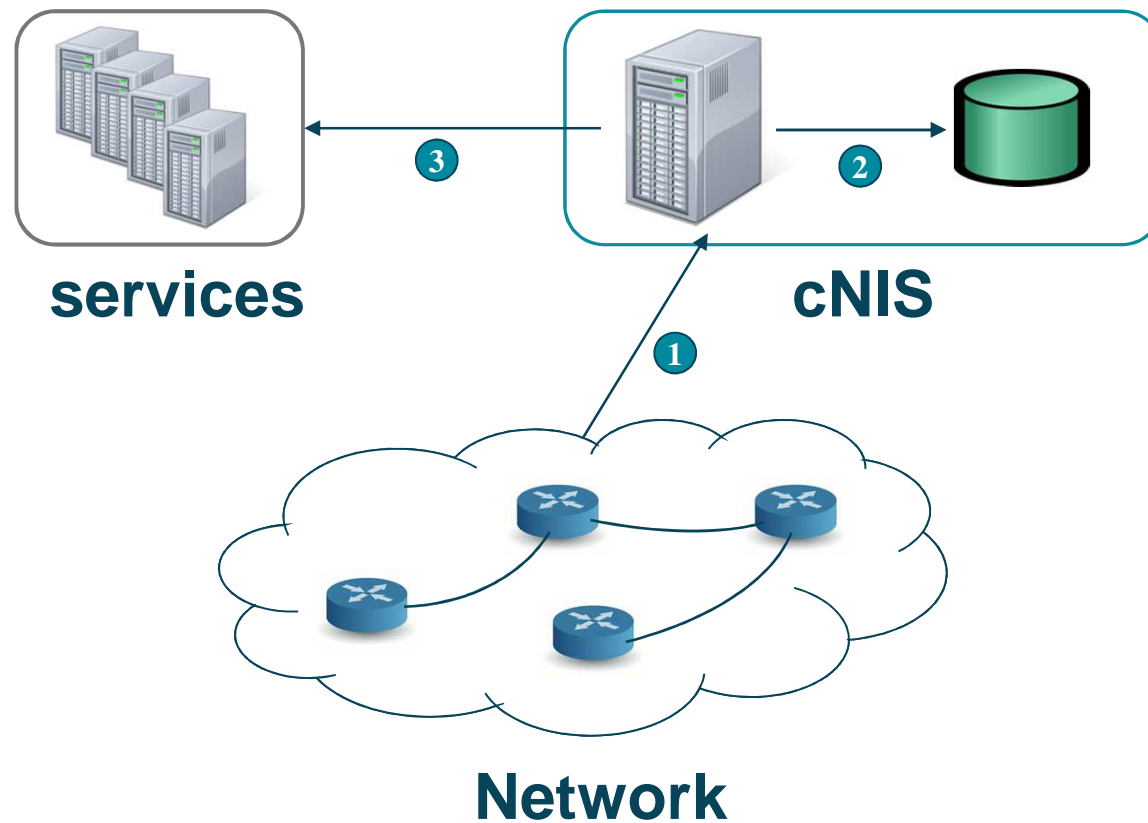
- Best Practices
- Quality Assurance and Auditing
- Common Software Infrastructure

- Software architecture strategy
 - *Methodologies, Design, IPR*
- Software developer best practices
 - *Version control management, building, releasing, packaging and publishing, documentation*
- Quality assurance best practices
 - *Change management, configuration management, testing, bug tracking*

- Performs periodical audits verifying if T1 practices are followed
- Delivers recommendations and indicates the „weakest links”
- Dedicated auditor is the „first line of support” in software governance issues.
- Towards QA person in agile development

- Software development infrastructure:
 - *Collaboration Platform (Intranet portal)*
 - *Identity Management (Crowd)*
 - *Continuous Integration (Hudson)*
 - *Issue tracking (JIRA)*
 - *Building and releasing (Maven)*
 - *Source code repository (SVN)*
 - *Source code revision (Fisheye)*

<http://cnis.geant.net>



- Idea
 - Build a community of users and developers
 - Use cases related to actual needs
 - Knowledge sharing
- Resources passed to the community
 - Source code (business logic)
 - Source code (network discovery engines)
 - Database schema
 - Documentation
- Proof of concept for other GN3 products
- Starting from April 2011
 - <http://forge.geant.net/cnis>

- Information Sharing across Heterogeneous Administrative Regions
- Tool supporting the operations in a multi-domain environment
- Makes the co-delivery of end to end links across multiple domains:
 - Easier
 - More efficient
 - Seamless
 - Quicker
- Provides a shared information and tracking tool for NRENs' operational teams.

Thank you for your attention!

Questions and remarks kindly welcome

<http://www.geant.net>