



40 European
National Research and Education Networks (NRENs)

Collaborate in their European association GÉANT:
Network, Identity Management, Clouds

Deliver to 10.000 organisations with 50 million users

Collective hybrid cloud approach


- Public clouds: procure from commercial suppliers
- Community clouds: build and operate sector specific solutions

Together, establish right conditions of use:
services that are safe and easy to use,
accessible, affordable and interoperable




Scale up national community cloud solutions to a European level

Greek IaaS cloud built and operated by GRNET



About Services Resources Opensource Support

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WELCOME TO OKEANOS GLOBAL!

STATISTICS

This is GRNET's cloud service, for the GÉANT Research and Academic Community. With ~oceanos global you are one click away from your own Virtual Machines, Networks and Storage.

Spawned VMs

12,126

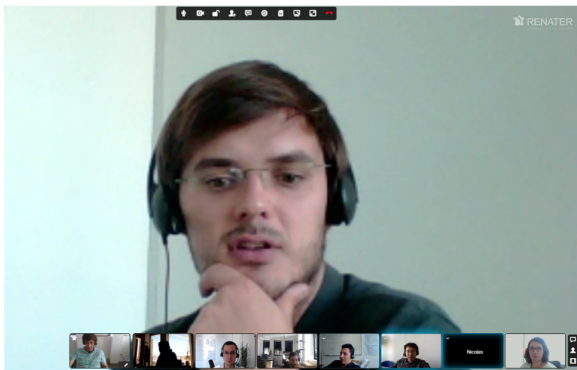
Active VMs

82

Spawned Networks

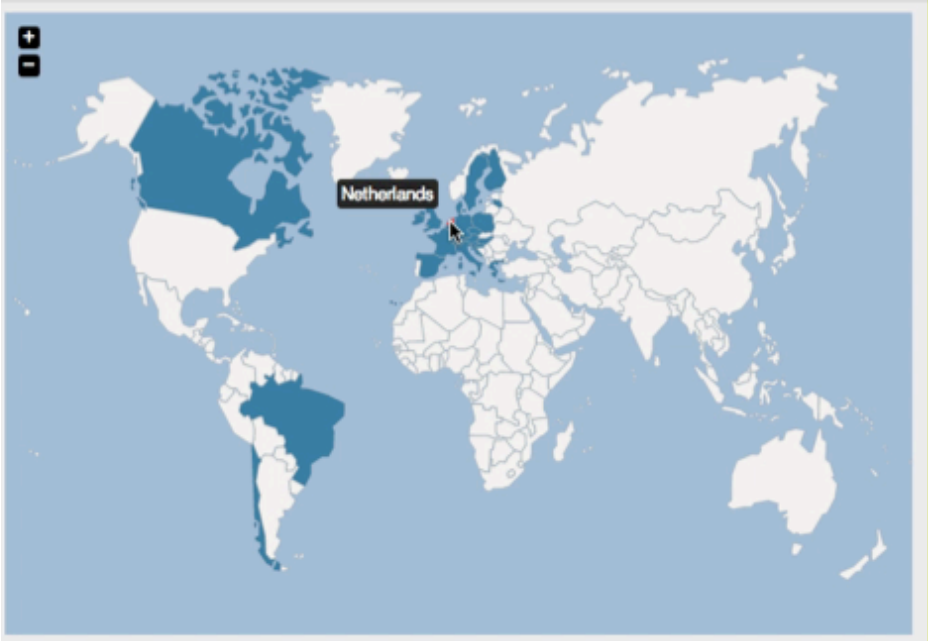
3,933

French web conferencing service built and operated by RENATER





Accessible by whole
European Research and Education community
Single sign-on
Log-in with institutional account

Select your country
to filter available providers



Select your provider
from a subset of entities in eduGAIN

 SURFnet bv
Netherlands 1364 km



Infrastructure as a Service (IaaS) in high demand

Pan-European tender

Through GÉANT
as cross-border, central purchasing body

Using EC Procurement Directive (2014/24/EU)

Results: framework agreements
with suitable suppliers

Not winner takes all, but provide choice

12 different IaaS solutions, 23 providers

4 year framework agreements

NRENs bring the agreements

to institutions for consumption



The screenshot displays the European Commission's website for the Digital Single Market, specifically the Digital Economy & Society section. The page is titled "Results of the GÉANT tender for Infrastructure as a Service solutions" and was published on 30/09/2016. The header includes the European Commission logo and the text "DIGITAL SINGLE MARKET Digital Economy & Society". A navigation bar at the top lists various policy areas: The strategy, Economy, Society, Access & connectivity, Research & innovation, and DG CONNECT. The main content area features a sidebar with links to DG CONNECT resources, including Who we are, Advisors, Events, Funding Opportunities, Newsletters, Consultations, Blog, and Discussions. The main text describes the tender for 36 countries aimed at allowing Research and Education institutions to consume the cloud in a safe, easy, and predictable way. It mentions that the tender was conducted by GÉANT, a Pan-European tender to allow Research and Education institutions to consume the cloud in a safe, easy, and predictable way. A share button is visible next to the text. The bottom of the page mentions that this demand aggregation in GÉANT, of the NRENs and their close to 10,000 participating institutions, creates a substantial single digital market where up to 500 million euro will be channeled through the framework contracts over the next four years.

European Commission

DIGITAL SINGLE MARKET
Digital Economy & Society

European Commission > Results of the GÉANT tender for Infrastructure as a Service solutions

Home The strategy Economy Society Access & connectivity Research & innovation DG CONNECT

DG CONNECT

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CoP for Better self- and co-regulation

Broadband Europe

ICT4Society

Students at ICT 2015

Discussion Forums

E-Infrastructures for You

Results of the GÉANT tender for Infrastructure as a Service solutions

Published on 30/09/2016

Europe's leading collaboration on e-infrastructure and services for research and education GÉANT, conducted a Pan-European tender to allow Research and Education institutions to consume the cloud in a safe, easy and predictable way.

The tender for 36 countries aimed to allow Research and Education institutions to consume the cloud in a safe, easy and predictable way, where services meet European and national regulations, have attractive pricing, are connected to the community's networks and identity management capabilities and can be purchased in a controlled and transparent manner.

This demand aggregation in [GÉANT](#), of the NRENs and their close to 10,000 participating institutions, creates a substantial single digital market where up to 500 million euro will be channeled through the framework contracts over the next four years.

Share

Framework agreement with the following suppliers



- Amazon, through resellers: Arcus, Comparex, Telecom Italia,
- Cloudsigma
- Dimension Data
- Interoute
- itSoft
- KPN
- Lattelecom
- Microsoft, through resellers: Atea, Cactus, Comparex, Dom-Daniel, Infosoft, Micromail, Nextsense, Novabase, SoftwareOne, Span and Ymens
- NTT Europe
- T-Systems
- Telecom Italia
- Vancis

Sort by

Name of supplier

Filters

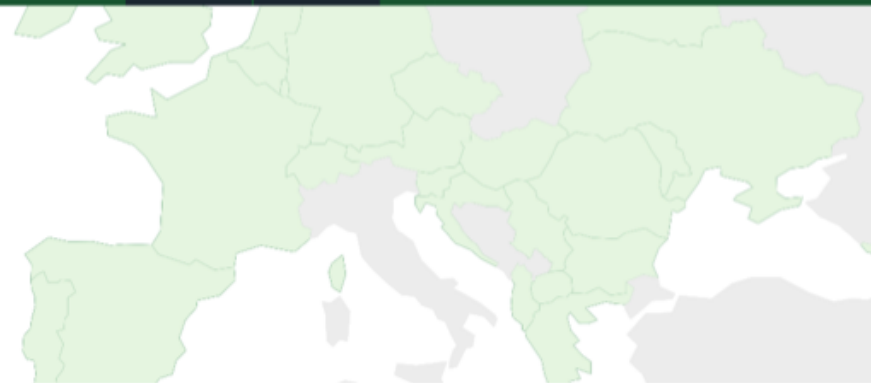
Show all resellers

Denmark

- ✓ Show all capabilities
- IaaS Solution
- Data Transport
- Federated user authentication
- Data protection and security
- Commercial terms

	Aggregated Spen	Capital expenditu	Contract terms	Cost recovery fee	Data traffic	Direct network cc	EU Data Security	Exit support	General Data Sec	Identity managern	Identity managern	Idle server setups	Licensing requirei	Marketing and ad	Migrating existing	Offering	Post-paid billing	Pricing	Public IP network	Sensitive data	Service	Strateg
Supplier A																						
Supplier B																						
Supplier C																						
Supplier D																						
Supplier E																						
Supplier F																						
Supplier G																						
Supplier H																						
Supplier I																						
Supplier J																						
Supplier K																						
Supplier L																						

Online cloud catalogue
'IaaS service matrix'
to display results



AC8 – General Data Security (Awarding Criteria)

R. Providers need to ensure secure, reliable and a legally compliant treatment of customer's data.

Q. Please describe in detail the policies and processes to ensure data security and data privacy in relation to the proposed services.

Response Guidance

- *Describe mechanisms to protect data at rest and in transit. *
- *Describe how customer data transiting networks (Internet, inside your network, connection to 3rd parties) is protected against tampering and eavesdropping (e.g. network protection, use of*

Adoption and
service support.
Strategic
collaboration.

Network: No data traffic charges.
Connect to GÉANT and NRENs networks over public IP.
Direct connect to institutions, Layer 2 point-to-point
connections.

Exit support.
Data portability.

Identity
Management:
SAML2 and
eduGAIN.

Compliance with EU Data
Security Directives.
Ability to offer IaaS from
inside the EC / EEA.

General security policies.
Handling of sensitive data
(including public health or
military research).
Certifications.

Admin
management
portal.
Customer self
service portal.
Order placement,
reporting and
group
management.

Volume discount (initial discount and additional
tiered discounted pricing). No price increase.
Purchase order and post-paid billing.
Recognising aggregated spending, combined for
all participating institutions.
Accommodating capital expenditure (upfront
commitment).

Mechanisms to reduce
costs for underutilised (or
paused) cloud resources.
Support for Bring Your
Own License (use existing
educational licenses).
Migration of existing
contracts.

API support.