



Géant Cloud IaaS Framework

“TOWARDS THE CLOUDS TOGETHER”

44-Grupos de Trabajo

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Towards Pan-European Cloud Services (<https://www.youtube.com/watch?v=wujP8WFKXlo>)



A DIGITAL SINGLE MARKET FOR CLOUD SERVICES THE BENEFITS OF THE GÉANT FRAMEWORK AGREEMENTS

Now institutions can pick and choose the services and providers they prefer and manage their cloud services easily and securely

ACCESSIBLE

No more complex, time-consuming and expensive tender processes

COMPLIANT

The framework providers are fully compliant with EU privacy and data security regulations

COST EFFECTIVE

By aggregating demand all National Research & Education Networks (NRENs) and institutions benefit from the same volume discounts

REDUCED NETWORK TRAFFIC COSTS

Cloud services are connected via the NREN and GÉANT networks – improving access and reducing costs

SINGLE SIGN-ON

Using eduGAIN federated identities makes services secure and easy to use

 **10,000**
Institutions

 **20**
Cloud
computing
providers

 **36**
NRENs



For more
information visit
clouds.geant.org

(Video: <https://explee.com/video/0bpzq>)



EC Procurement Directive (2014/24/EU)

New Directive sets out key provisions;
key to the success of the planned GEANT IaaS
tender and Frameworks:

- *Framework Agreement use*
- *Cross-border procurements*
- *Centralised Purchasing Bodies*

Member State Procurement Legislation

To be implemented by Member States no later than 18th April 2016

→ España: Nov-17 publicada en BOE la nueva LCSP
donde se transpone esta Directiva europea.



Joint NREN IaaS tender in GÉANT

IaaS in high demand by community

36 NRENs

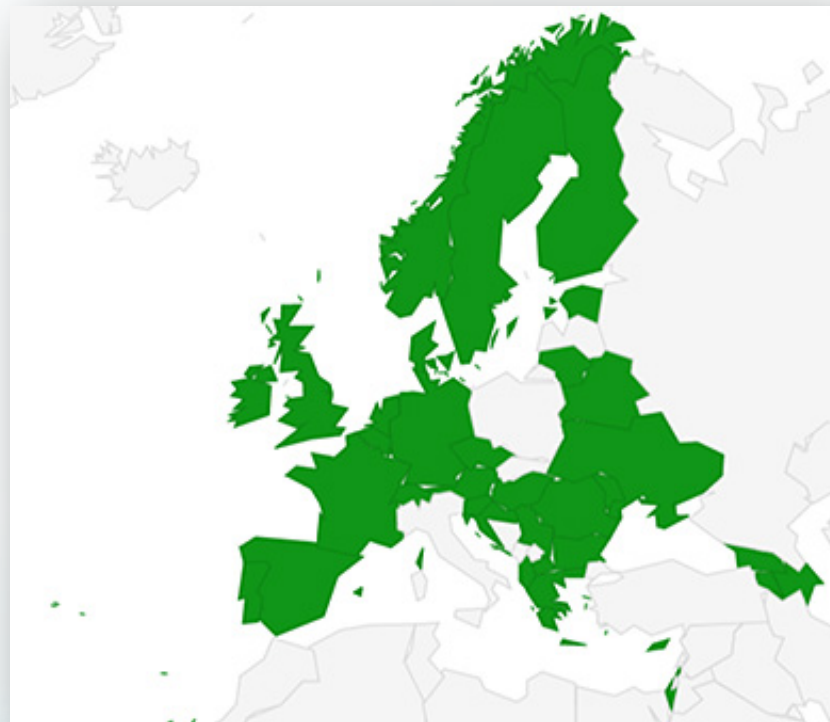
establishing framework agreements with suitable suppliers

Not winner takes all, but provide choice

NRENs bring the agreements to institutions for consumption

Official tender notice (OJEU):

<http://ted.europa.eu/udl?uri=TED:NOTICE:142458-2016:TEXT:EN:HTML>



Joint NREN IaaS tender in GÉANT

Infrastructure as a Service (IaaS)

Pan-European tender, conducted in 2016

Through GÉANT as cross-border, central purchasing body

GÉANT → member NRENs → member institutions

Using EC Procurement Directive (2014/24/EU)

Results: framework agreements with suitable suppliers

11 different IaaS solutions, over 20 supplier

4 year framework agreements starting January 2017



The screenshot shows the European Commission website page titled "DIGITAL SINGLE MARKET Digital Economy & Society". The breadcrumb trail is "European Commission > Results of the GÉANT tender for Infrastructure as a Service solutions". The page features a navigation menu with "DG CONNECT" selected. On the left, a sidebar lists various resources under the "DG CONNECT" heading, including "Who we are", "Advisors", "Events", "Funding Opportunities", "Newsletters", "Consultations", "Blog", "Discussions", "CoP for Better self- and co-regulation", "Broadband Europe", "ICT4Society", "Students at ICT 2015", "Discussion Forums", and "E-Infrastructures for You". The main content area displays the title "Results of the GÉANT tender for Infrastructure as a Service solutions" with a publication date of "30/09/2016". A text box highlights that Europe's leading collaboration on e-infrastructure and services for research and education through GÉANT conducted 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. Below this, a paragraph states that 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. A final paragraph notes 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.

Proveedores Cloud para España



OIPs



TELECOM ITALIA GROUP



Requisitos técnicos y de servicio ajustados a nuestras necesidades...

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 postpaid 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	

OPTION 1

Use as is, via a **Direct award**
default terms and conditions

Use the conditions as established via the
GÉANT tender
(no ‘customisation’)

Pick the supplier of your choice
Sign the call-off agreement
Use the service

OPTION 2

Customise, through a **Mini competition**
apply ‘add-ons’

Ask additional questions
to the suppliers selected by GEANT.

Evaluate their answers, select a winner

**Use the call-off agreement from GEANT and
add additional clauses as needed**

- **Múltiples beneficios:**
 - Ahorro de costes (descuentos y reducción significativa de los costes de tráfico)
 - Agilidad (licitación conjunta ya realizada por GÉANT)
 - Cumplimiento de la normativa europea sobre seguridad y protección de datos
 - Inicio de sesión único (SSO) con las credenciales propias de cada institución a través del servicio de Federación de identidades de RedIRIS (SIR - eduGAIN)
 - Conexiones optimizadas (Direct peering) con los proveedores cloud

- **España:** 18 instituciones académicas ya han comenzado a hacer uso del Framework.
 - Mayoritariamente **Privadas** (uso directo del Framework): Institución Educativa SEK, Universidad Internacional de la Rioja, Universidad Pontificia de Comillas, ESADE, IESE, Instituto de Empresa, Universidad Católica de Ávila, IQS (Universitat Ramon Llull), Universitat Oberta de Catalunya, Universidad de Mondragón, Universidad San Pablo CEU.
 - Aunque también **Públicas** (uso “indirecto” del Framework): Universidad Politécnica de Madrid, Universidad Politécnica de Cartagena, Universidad Autónoma de Madrid, Universidad de Salamanca, Universidad de Oviedo, Universidad de Castilla-La Mancha, Universidad de Santiago de Compostela
- Hasta hoy todos los contratos han sido sobre Microsoft **Azure**.

Proveedores Cloud para España



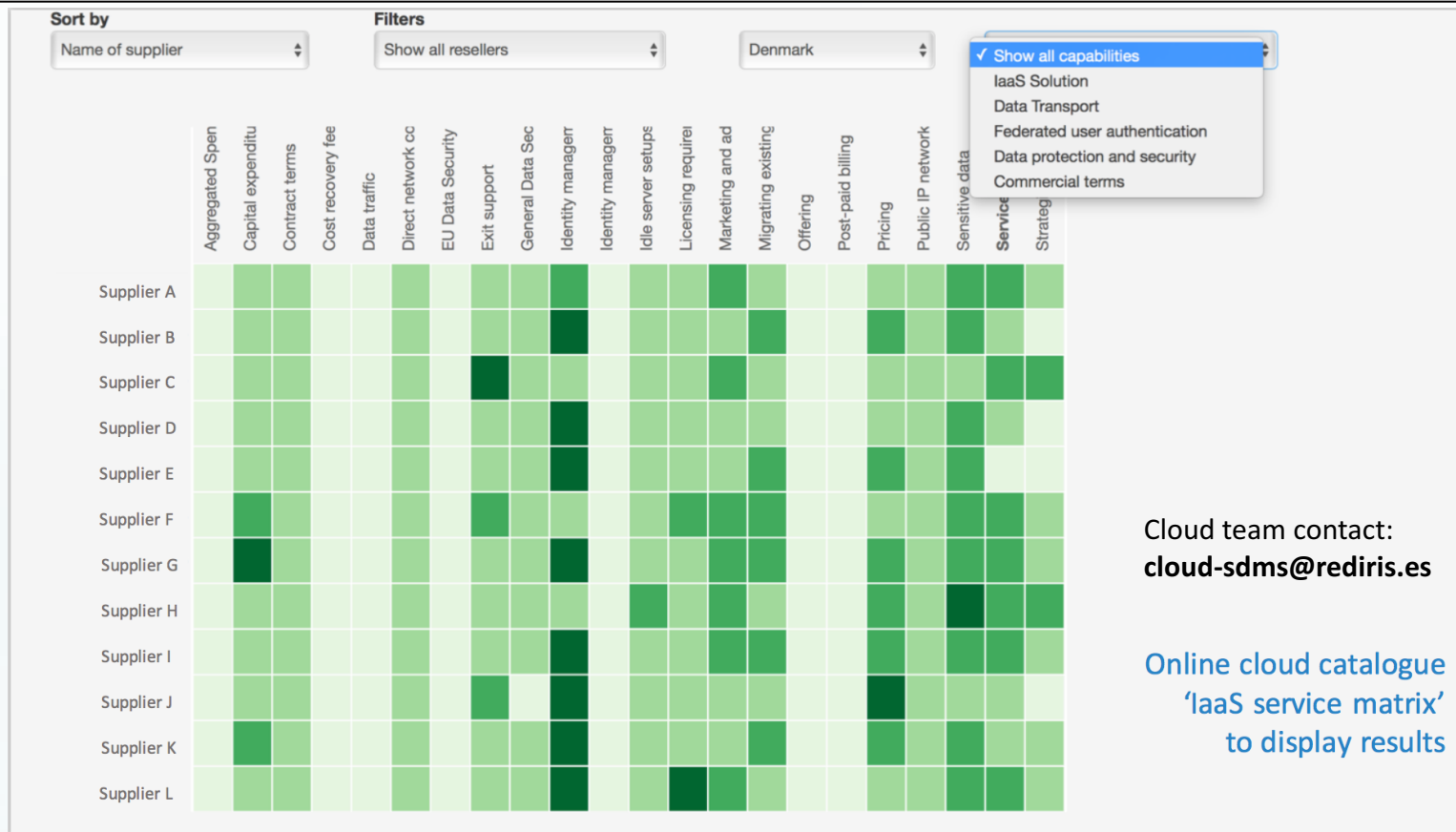
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Online Cloud Catalogue: IaaS service matrix (<https://catalogue.geant.org/reports/>)



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Online cloud catalogue
'IaaS service matrix'
to display results



“Avanzando juntos hacia la nube y más allá...”

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