

GÉANT OPEN

High Performance Interconnectivity for Research

GÉANT Open – Facilitating Public Private Partnerships for the Future Internet

Facilitating collaboration has always been the cornerstone of GÉANT, and GÉANT Open adds to its portfolio of collaboration services to enable NRENs and researchers to interconnect with commercial teams and third party organisations.

GÉANT Open allows NRENs to arrange interconnections between external services and partners quickly and easily without the need for dedicated circuits. For example NRENs can interconnect with cloud service providers or research labs to offer access for their users. The service uses a dedicated switch onto which all users can connect their own circuits and then interconnect with other participants in order to provide inter-organisation connectivity. The interconnections can be either at the full circuit capacity or the circuit can be subdivided to allow one-to-many or many-to-many connections as required.

This has particular benefits to international partners needing to manage multiple interconnections and wishing to harmonise their international circuits.

As a first within the European Research and Education (R&E) community, approved commercial organisations will be able to connect to GÉANT Open. This will help R&E users to access a wide variety of commercial third parties as part of private/public research projects or to access privately operated facilities or services.

BENEFITS

Protocol Neutral:

Open, layer 2 interconnectivity allows maximum flexibility

Supports Multiple Virtual Connections:

One physical interface can be logically subdivided into separate VLANs allowing the participant to connect with many other members simultaneously.

Onward Connectivity:

Participants can also make connections from GÉANT Open through the GÉANT network to support multiple uses such as commercial research facilities or cloud service providers

Supports European and Global Connectivity

Flexible:

GÉANT Open allows interconnections to be made for short or medium terms – for example to support a major event or project - without the need to contract a long-term dedicated circuit.

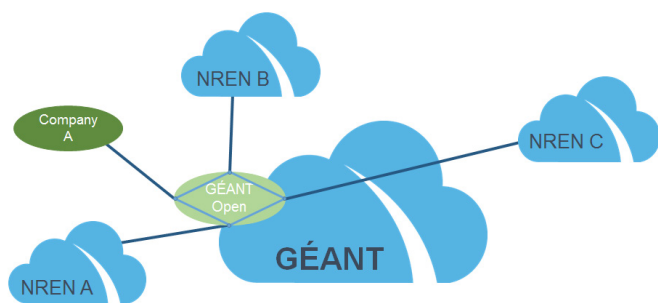
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Technical Specification

The need for multi-Gigabit international connectivity between organisations has dramatically increased, placing accelerated demands on research and education networks.

Many of these connections may only be required for short periods of time or intermittently, making the provision of dedicated circuits expensive, complex and hard to manage.

GÉANT Open offers a flexible, cost effective solution for interconnectivity.



Hardware	• Juniper MX Series 3D Router
Supported Nominal Data Rates:	• 1-100Gbps
Protocols Supported:	• Ethernet
Target Monthly Availability	• 99.4%
Target Service Restoration,	• Next business day
Supported Client Interfaces	• 1, 10, 100 GigE
Onward Connectivity to GÉANT network	• Permitted
Access to Commercial Organisations	• Permitted
Delivery Time	• 5 working days (plus circuit provision). Up to 10 weeks if hardware upgrade required
NOC Coverage	• 24*7

GÉANT is the pan-European research and education network that interconnects Europe's National Research and Education Networks (NRENs). Together we connect over 50 million users at 10,000 institutions across Europe, delivering advanced services to drive innovation.

