GÉANT Managed Wavelength Service Description

Dedicated full capacity connectivity of 100 or 400Gbps

GÉANT Managed Wavelength Service

Overview

The GÉANT Managed Wavelength service provides dedicated, transparent connectivity between any two GÉANT PoPs on the dark fibre Network. The service is typically of benefit to those users having extreme networking demands, for example large-scale research projects that need to transfer huge amounts of data between sites via a dedicated (guaranteed capacity) secure connection.

Robust: Same robust levels of support and resilience offered by the GÉANT network.
High capacity: Up to 400Gbps services available.
Flexible: End-to-end dedicated connections allow greater protocol flexibility.
Guaranteed capacity: Guarantees PoP-to-PoP bandwidth, capacity delivered over 100Gbps or 400Gbps interfaces.

The GÉANT Managed Wavelength service is delivered using Data Centre Interconnect (DCI) and open line system equipment over the GÉANT backbone network. This approach provides enhanced performance and low cost high-capacity services. Services are provided using permanently allocated end-to-end capacity to provide assured performance.

Multiple GÉANT Managed Wavelength services between the same end sites can be diversely routed providing a warm or hot standby service to the connector. Switching between diverse routes is the responsibility of the user. Each circuit is terminated separately at the hosting provider Optical Distribution Frame (ODF).

Service-Level Targets

Availability Target

For a single Managed Wavelength, the annual availability target is 99.5% up to 1000km and then 0.5% less for every additional 1000km.

The unavailable time of GÉANT Managed Wavelengths Service is calculated per service between the two GÉANT end point PoPs. The targets are calculated on a rolling 12 month basis for complete loss of traffic on the GÉANT infrastructure, excluding planned maintenance.

Each Managed Wavelength Service is built as a single service on top of the fibre backbone. This means it will see the impact of fibre breaks or maintenance. Where additional resilience to the connectivity is required between the end points, a second, geographically diversely routed Managed Wavelength service can be added.

Delivery Lead Time
Available on request from your Partner Relations representative. Currently there are extended lead times due to hardware availability.

Pricing
Available through your Partner Relations representative.

Service parameters

Supported Nominal Data Rates	100GE 400GE

Supported Client Interfaces	100 GE:
	   o LR4 (10Km)
	
	• 400GE
	   o FR4 (2Km)
	   o LR4 (10Km)

Optical Connectors	• On request- ODF presentation dictated by PoP provider
Protocols Supported	• Ethernet