DynPaC

A Dynamic Path Computation Framework

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GÉANT Connectivity Services

Bandwidth on Demand

BoD is the world’s first and only multi-domain service for automatic bandwidth provisioning. It enables NRENs to deliver flexible, customised connectivity to serve their users’ data transmission needs.

How can we provide this type of services based on SDN Technologies?
A framework for Dynamic Path Computation in SDNs
• **Reallocation** of provisioned and reserved services in order to make room for new service demands.
• **Disaggregation** of an already provisioned service in the minimum required sub-services and reallocate them.

Accepted service thanks to the R&D mechanism

Disaggregated service in two more granular subflows (TCP and UDP)
DynPaC is able to schedule services and takes into account reserved resources to compute the paths.
The resiliency mechanism guarantees the service provisioning even in the case of a link failure.
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