GÉANT Open Call Projects
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CEOVDS | Cross-site Evaluation of an Openflow-assisted Video-on-Demand Distribution Service

Motivation: Video-on-Demand (VoD) Distribution Efficiency
As VoD grows there are increasing demands on network infrastructure
• VoD requests are handled naively; there is an independent flow per request
• Therefore, duplicate flows deliver identical media objects through the same network segments

The Challenge:
• End-to-end capacity of network infrastructure must grow continuously to match the increasing number of internet video users
• The increasing popularity of VoD and especially of High Definition content will worsen this

Project Aims
1. Develop and evaluate an OpenFlow-assisted VoD distribution service for cross-site deployment on the GÉANT OpenFlow facility
2. Evaluate end-to-end cross-site VoD traffic to:
   • Reduce the overall network utilization
   • Improve the Quality of Experience for the end-user

Deploying the service on the GÉANT OpenFlow Facility for cross-site experimentation and evaluation

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