



Final project proposal

Type	Master	
Title	<i>VoD peer-assisted streaming in managed networks</i>	
Supervisor	Igor Mishkovski	
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Department / Group		
Institute for Information Systems and Network Technologies – FCSE		
Topic(s)		
Networks, multimedia,		
Project can start from	01.10.2014	
Project duration	4 months	
Short description		
<p>The main objective of the project is a design of a system for VoD streaming in a managed IPTV-based network. Because of the bandwidth-demanding nature of the videos, the system reserves certain part of the storage and streaming capacities of the STBs and uses them for peer-assisted streaming. The activities of the project consist in finding new ways of serving the requests for videos and distribution of the contents in the peers and the streaming servers so that a cost function is optimized. The cost function should be based on the QoS, the network traffic and the energy consumption.</p> <p>The system is already implemented in a simulation environment (Matlab).</p>		
Results and assessment		
<p>As a project outcome the student need to write a report and make a presentation. In addition, the project will be evaluated with a written paper published in corresponding journal or conference.</p>		
Other (additional) information		