

Cross-platform adaptive bitrate video player

Background

As video is being streamed to a multitude of different devices boasting various screen sizes and network connections, the need for adaptive bitrate streaming is ever increasing. To ensure quality of service for user streaming video content, the video must be able to adapt to a number of different circumstances. By providing video streams with both resolution and bitrate targeted at the specific device and bandwidth, quality can be achieved.

Description

The master thesis work would focus on investigating the possibility of building a video player that supports adaptive bitrate protocols (MPEG-DASH and HLS primarily) that would be possible to deploy across a large number of video platforms. These platforms could include smart phones, game consoles and smart TVs.

Key focus areas are researching technical requirements for constructing such a video player.

The thesis should attempt to describe the technical requirements and provide a proof of concept implementation on one or more platforms.

Qualifications

The thesis requires knowledge and interest of programming, as well as knowledge in video technology. A personal interest and drive for the technical development of consumer electronics and new ways of using technology is greatly appreciated.

Please send your application, including a resume and cover letter, to thesis@accedo.tv before August 15, 2015.

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Thesis work will be carried out in Stockholm. 30hp.

Accedo is the market leading enabler of TV application solutions. Accedo provides applications, tools and services to media companies, consumer electronics and TV operators globally, to help them deliver the next-generation TV experience.

Accedo's cloud-based platform solutions enable customers to cost-efficiently roll out and manage application offerings and stores for multiple devices and markets.

