

Biweekly report nº 8

16/05 – 31/05

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Thesis: Video-on-Demand system for IPTV

→ Objectives

- Implement the Client's interface (continuation).

→ Finished tasks

- The Content List view now has a Search Box working with some minor bugs. Search is only possible with Genres. Content View is finished showing all the Movie Information.

- For the movie player, two media libraries were tested. Gstreamer and VLC frameworks. Using JNA, Java can access the Native C libraries. With Gstreamer is only to Play/Pause correctly the movie, when seeking the video sticks in a frame for a few seconds, but still receives RTP packets. This bug is caused by the inability of Gstreamer to properly synchronize the video and audio after the seek command is issued.

- VLCJ Java bindings are the best solution so far for the Client. The movie is properly played. Pause and Seek work perfectly and a progress bar was added to improve usability. Fast forward has a few issues. It cannot update properly the time position while fast forwarding, and after the Play is issued again, for normal playback, the movies has a few jumpy frames at normal rate. Fast rewind is not supported in the VLC official source code, which means a few lines had to be changed to accommodate this functionality.

- The Client interface is now complete. JavaFX BaseTask and Runnable API had to be used in order to bring Java applications to the JavaFX environment. However in the near future both these Classes will be deprecated.

→ Next tasks

- Thesis Writing.