

Audio/Video Streaming (RTMP, HLS, DASH) Support

Introduction

This is a page for discussion, planning and progress updates regarding support in DSpace 5.x for supporting RTMP / HLS / DASH streaming.

Proposal

Rather than providing an "out of box streamer", the focus is on ensuring that DSpace has the mechanisms to allow streamers to request and get bitstreams, for streaming to clients/players.

A series of prototypes/demonstrations using various streamers will be made available by March 2014.

This proposal was discussed at the [DSpace Developers' Meeting on 2014-02-12](#)

Background

More information about:

- [RTMP and RTMPT](#) streaming (Wikipedia)
- [HTTP Live Streaming \(HLS\)](#) (Wikipedia)
- [DASH](#) streaming (Wikipedia)

Streaming Servers ("streamers")

Streamers currently tested, for requirements gathering and creating prototypes:

- [Red5](#)
- [crtmpserver](#) (aka rtmpd)
- [nginx_rtmp module](#)

One noticeable fact about all three is the assumption that (a) seek and metadata files should be stored with media, and (b) lack of decent "get (and possibly cache) file over http" support.

This might mean some help enhancing these 3rd party projects to help with integration into repository technology.

Players

Players currently tested, for requirements gathering and creating prototypes:

- [JWPlayer](#)
- [VLC](#)

Theoretically, any player that works with standard streaming protocols should be supported.