

FeM C3 Streaming and Recording Setup Documentation

Under construction

Encoding Pipeline

- Recording using [BlackMagic Decklink SDI cards](#), a [capture tool](#) and a ffmpeg chain
- Recording is done in fixed length segments for continous capturing (and not missing any lecture starts) without reaching file system limits

Ticket Tracker

- Ticket tracker tracking the state of recording tickets (for each Fahrplan entry) and encoding tickets (for each format)
- PostgreSQL, PHP
- Code: <http://git.fem.tu-ilmenau.de/?p=cccongress.git;a=summary>

Encoding Cloud

- LiveCD image to boot multiple encoder instances
- Recording segments available via central storage box
- Encoding ticket processing with tracker connection (XML-RPC)
- Code: <http://subversion.fem.tu-ilmenau.de/repository/cccongress/trunk/tools/job-control/>

Streaming

Encoding

- each room one RTMP encoder
 - sdi card, capture tool, ffmpeg pipeline
 - multiple data sinks using enhanced tee → **supertee**
 - Code: <http://hg.fem.tu-ilmenau.de/supertee/>,
<http://subversion.fem.tu-ilmenau.de/repository/cccongress/trunk/tools/sdi-script/>
- each room one WMV encoder
 - sdi card, windows media encoder 9
- each room one slide only encoder
- sdi card, capture tool providing v4l device (video only), motion
- Code: <http://subversion.fem.tu-ilmenau.de/repository/cccongress/trunk/tools/bmd2v4l2/>,
<http://www.lavrsen.dk/twiki/bin/view/Motion/WebHome>

Relay

- RTMP and HTTP Relay using Nginx
 - new RTMP relay module for nginx
 - Code: <https://github.com/arut/nginx-rtmp-module>
- WMV relay using Windows Server 200X with Media Services

From:

<https://wiki.fem.tu-ilmenau.de/> - **FeM-Wiki**

Permanent link:

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