30C3 VOC

The 30C3 video operation center
– a joint venture of CCC and FeM e.V.

VOC

- new, distributed team

- around 20 people

- two months of weekly mumble meetings, ~3h each
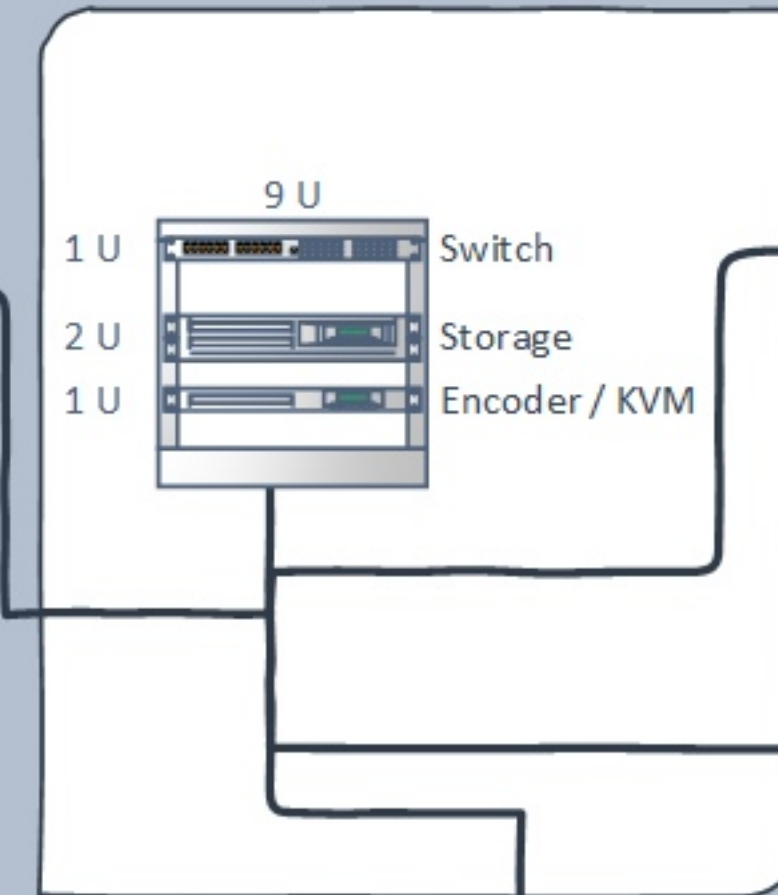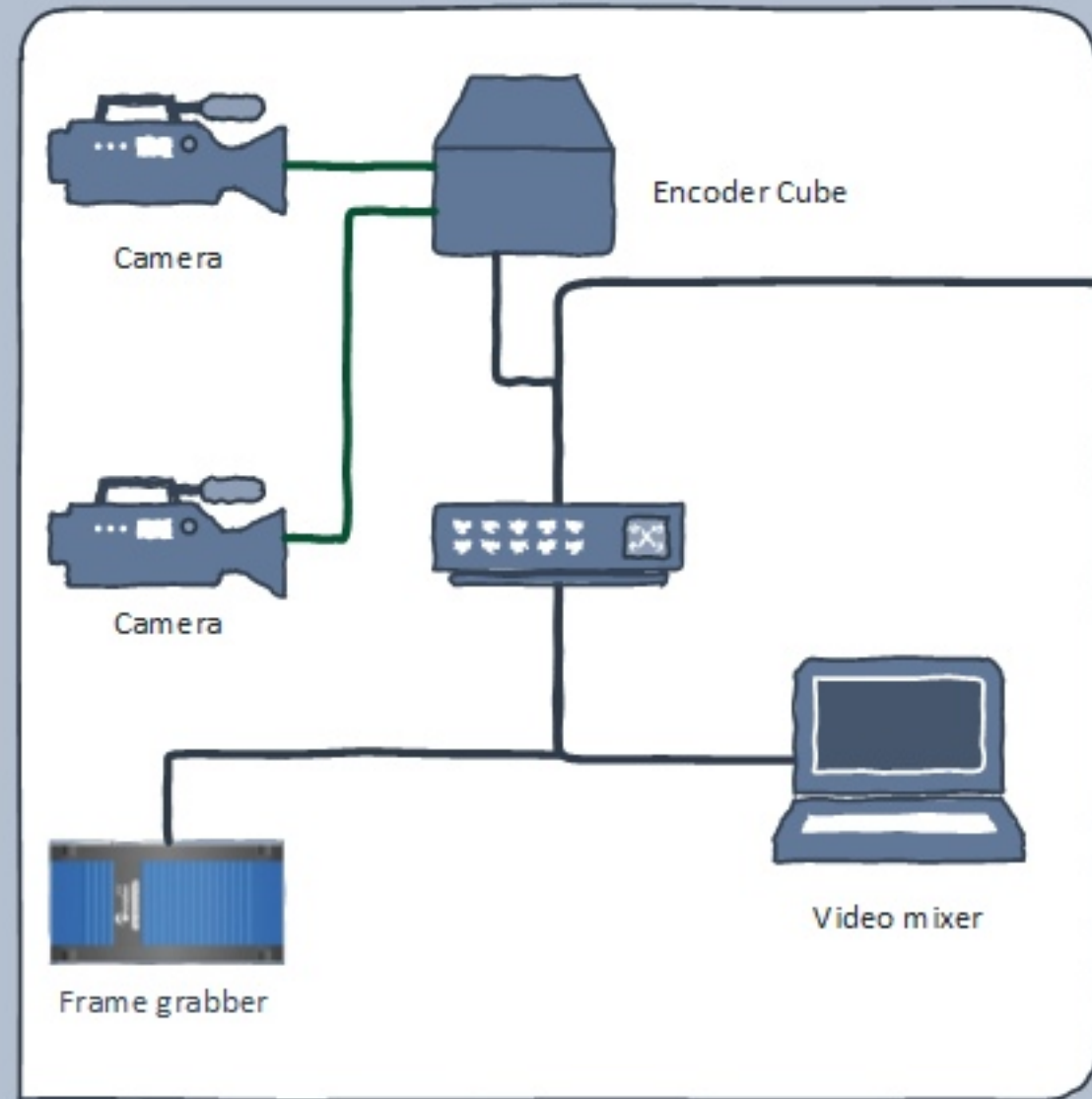
- 40 pads

- one preparation weekend

New Stuff

- four tracks - one more than last year

- one HD 1080p track

- decentralized setup

- subtitles

- workshops recordings – continued
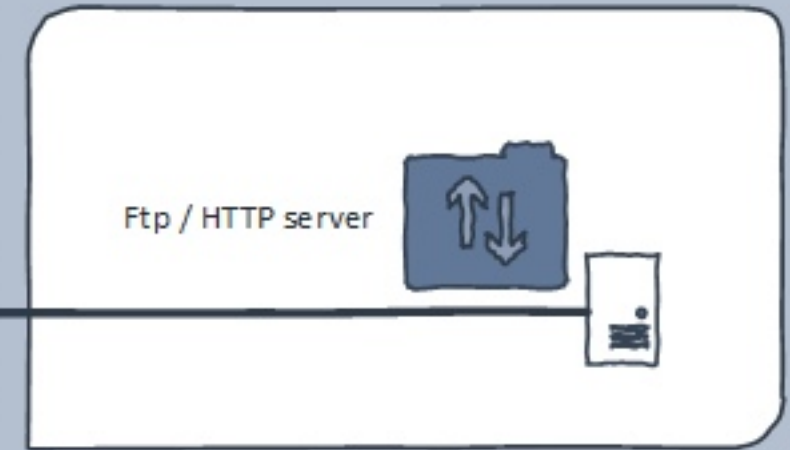
- new releasing platform (media.ccc.de API)
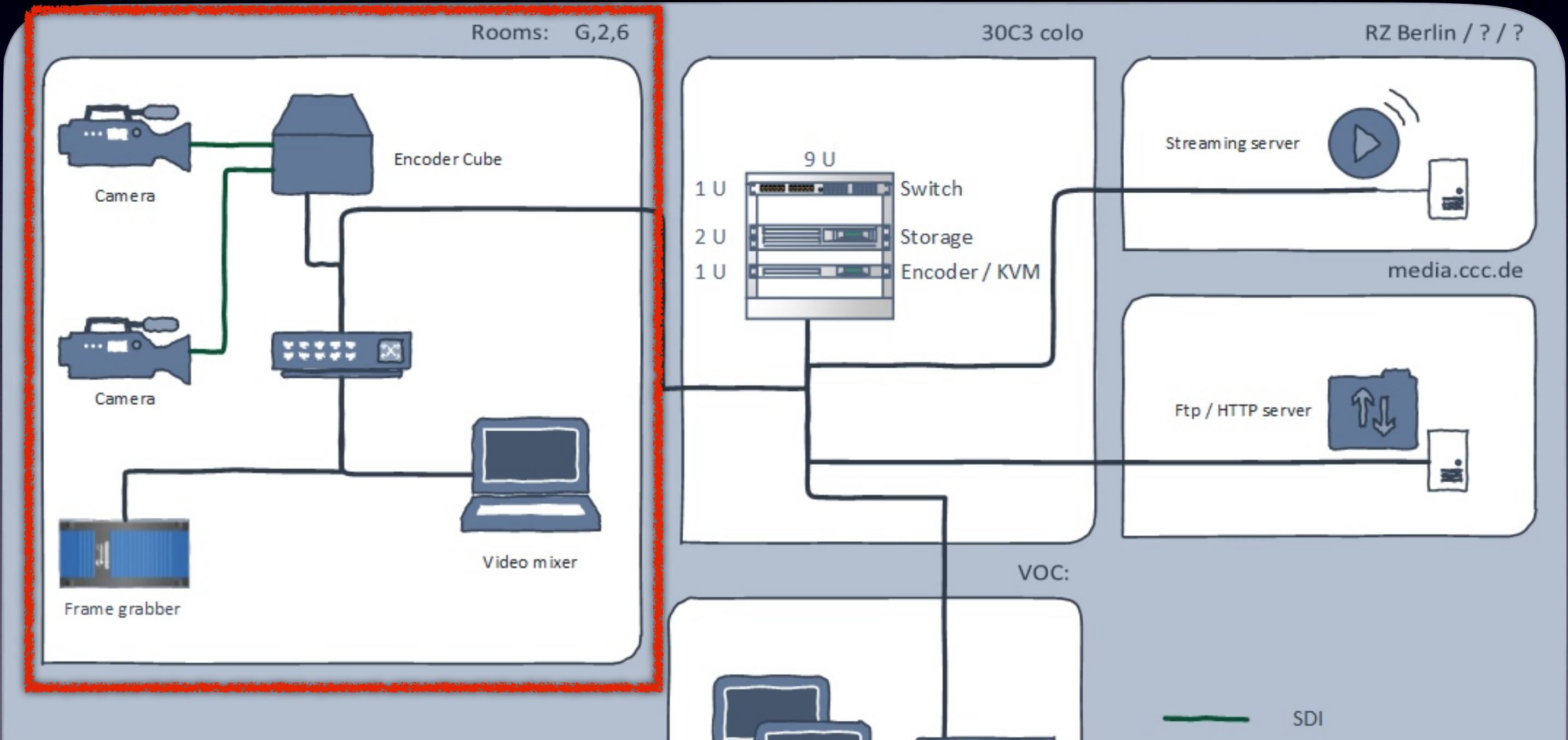
Overview

Saal AV
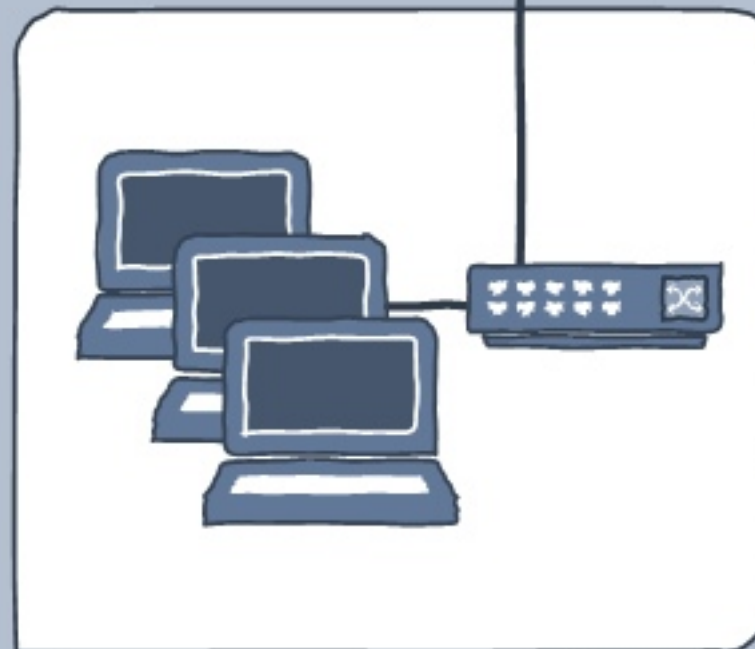
CCC – Video Saal 1
Seitenrang rechts/vorne

(Vorschaumonitore für Switche
nicht eingezeichnet!)

Bühne:

2x
40° TFT
auf Bühne

DVI
Verteiler

100m DVI

Kunden Laptop
am VT

50m RGBHV

50m DVI

Kunden Laptop
am RP

50m RGBHV

Beamer
Switch

Analog Way
PLS 300
+
RK 300

DVI
1920 x 1080

DVI
Verteiler

100m DVI

CCH
Beamer

Panasonic
PT-DZ21K

Kunden Laptop
in Regie
(Pausenanim.)

DVI

CCH Laptop
am Tonpult (?)
(Logo)

VGA

DVI   DVI

CCC
DVI-
Broadcast

HD-
SDI

CCC – eigene
Videotechnik
(Mischer+Kamero)
etc

3x CCC – Kameras

Ethernet
Stream

2x Audio vom CCH (OR+Dahm)

(zur Regie 1/2)

EDID sim

Display ← | → Computer

Micro USB ↓
(for +5V Power Supply)

- https://github.com/datenwolf/vgaedidinjector
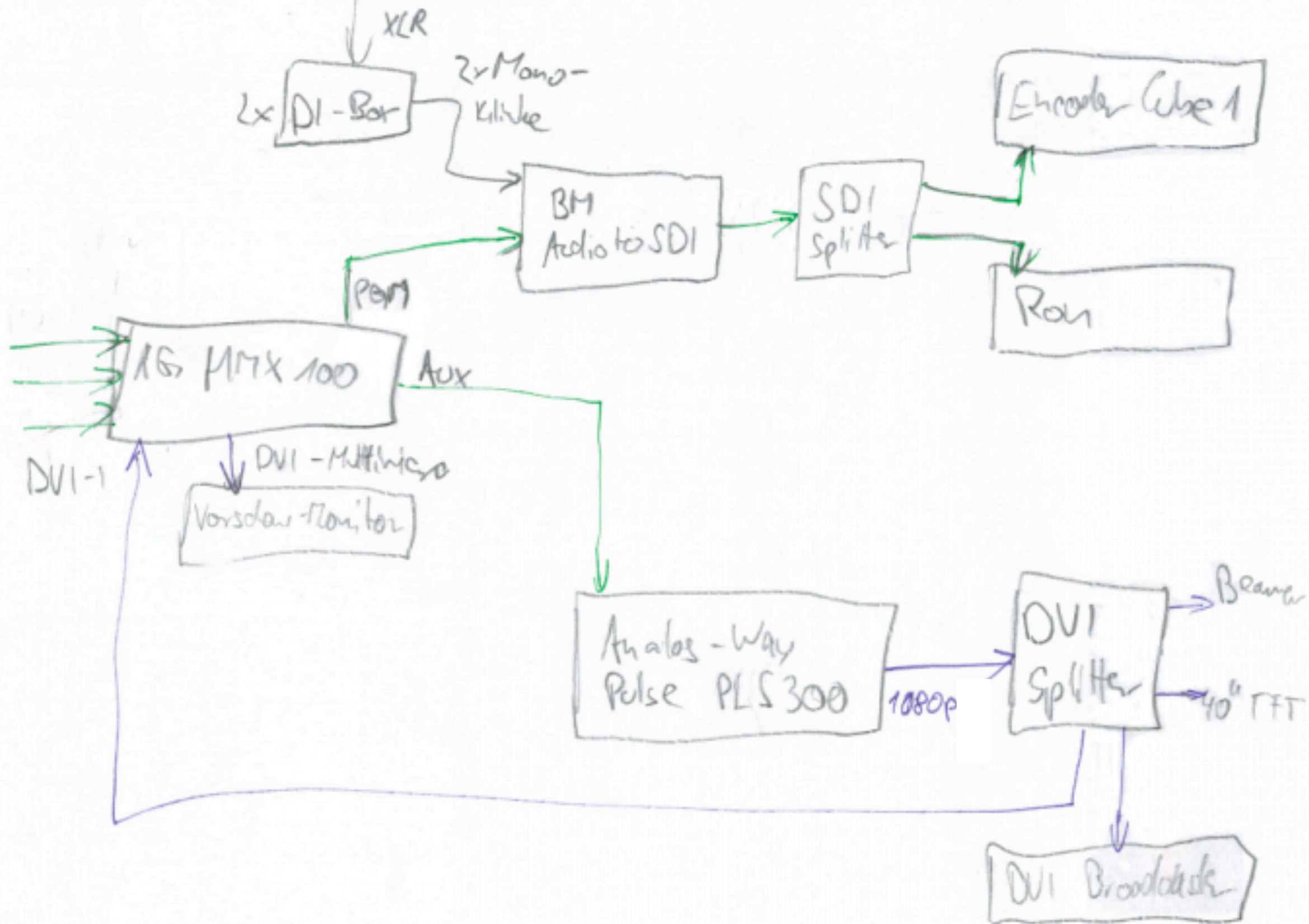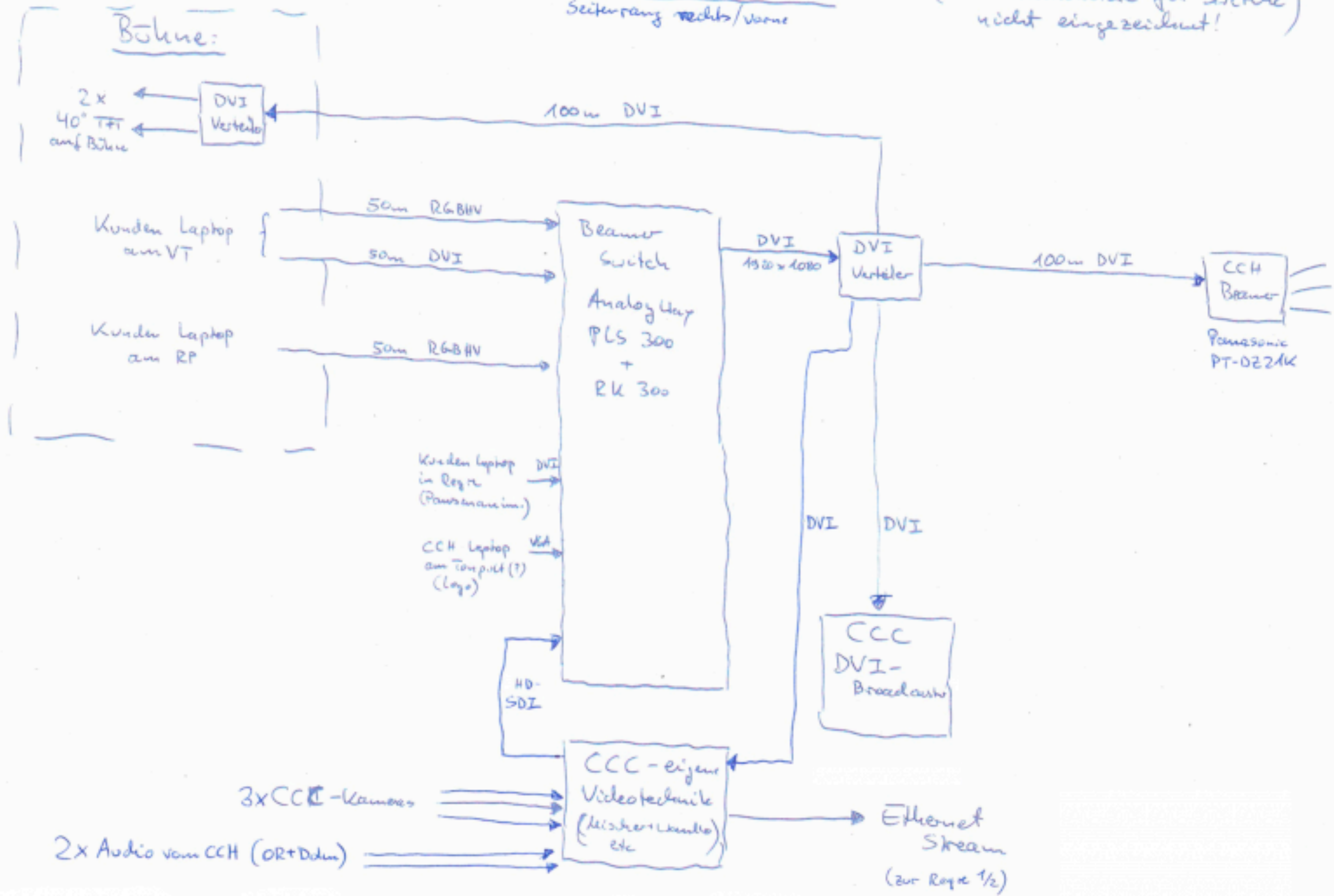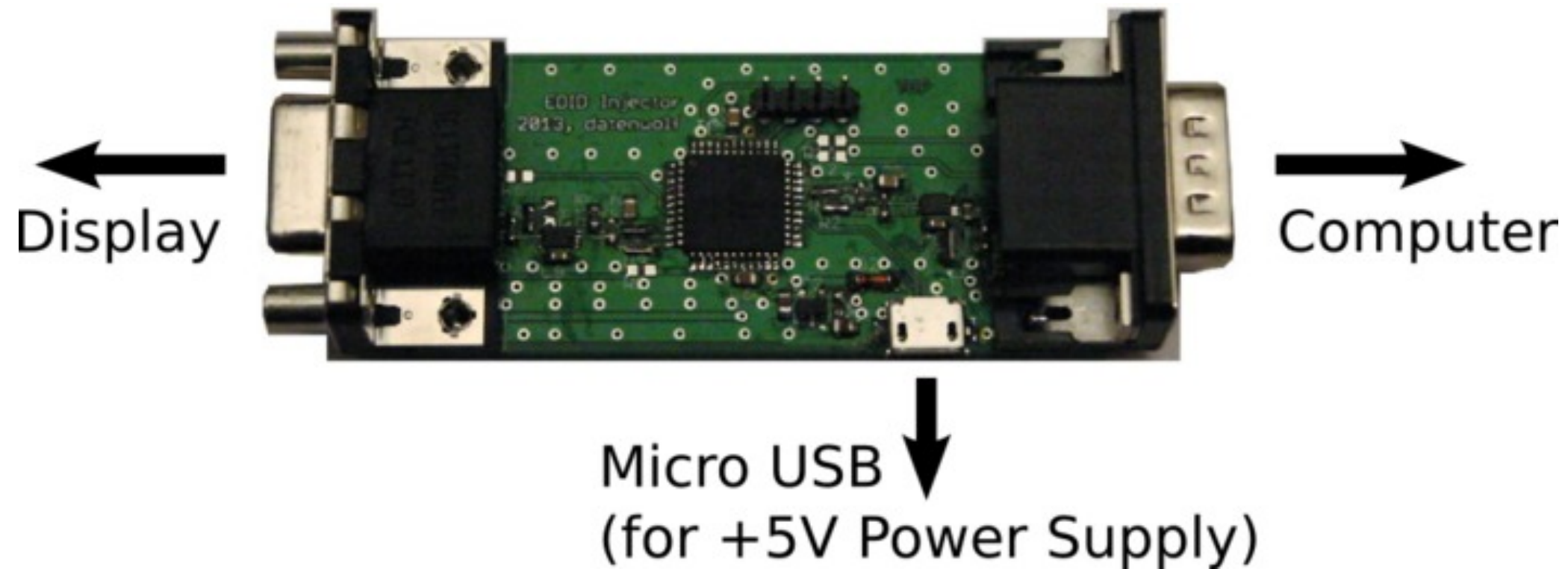
- https://events.ccc.de/congress/2013/wiki/Projects:VGA_EDID_Injector

CCC – Video Saal 1
Seitenrang rechts/vorne

(Vorschaumonitore für Switche nicht eingezeichnet!)

Bühne:

2x 40" TFT auf Bühne ← DVI Verteiler ← 100m DVI

Kunden Laptop am VT
  50m RGBHV →
  50m DVI →

Kunden Laptop am RP
  50m RGBHV →

Beamer Switch
Analog Way
PLS 300
+
RK 300

Kunden Laptop in Regie (Pausenanim.) DVI →

CCH Laptop am Tonpult (?) (Logo) VGA →

HD-SDI →

DVI 1920 x 1080 → DVI Verteiler → 100m DVI → CCH Beamer
Panasonic PT-DZ21K

DVI   DVI

CCC DVI-Broadcast

3x CCC-Kameras →
2x Audio vom CCH (OR+Dahm) →

CCC-eigene Videotechnik (Mischer+Zuspieler) etc → Ethernet Stream (zur Regie 1/2)
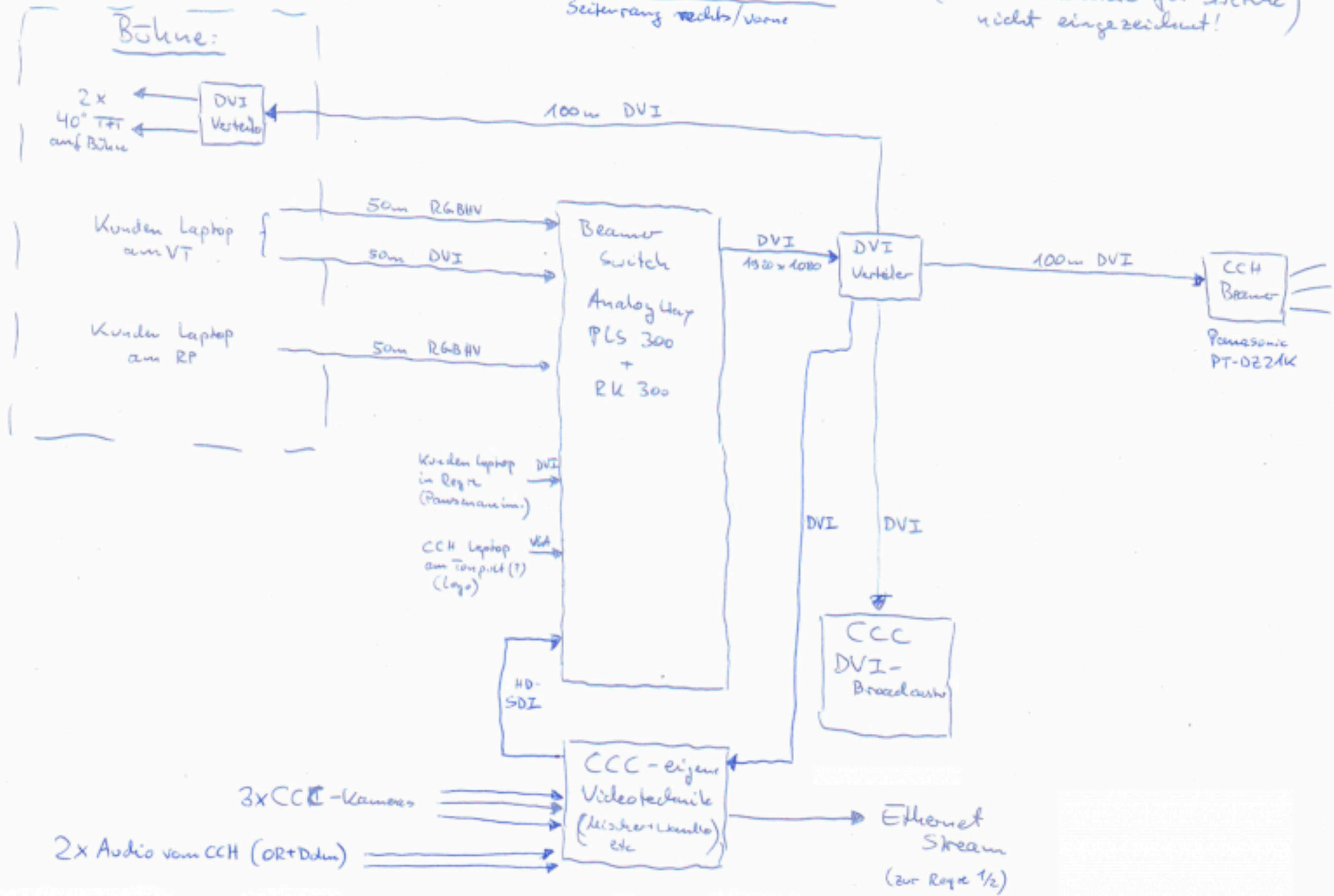
VOC Colo
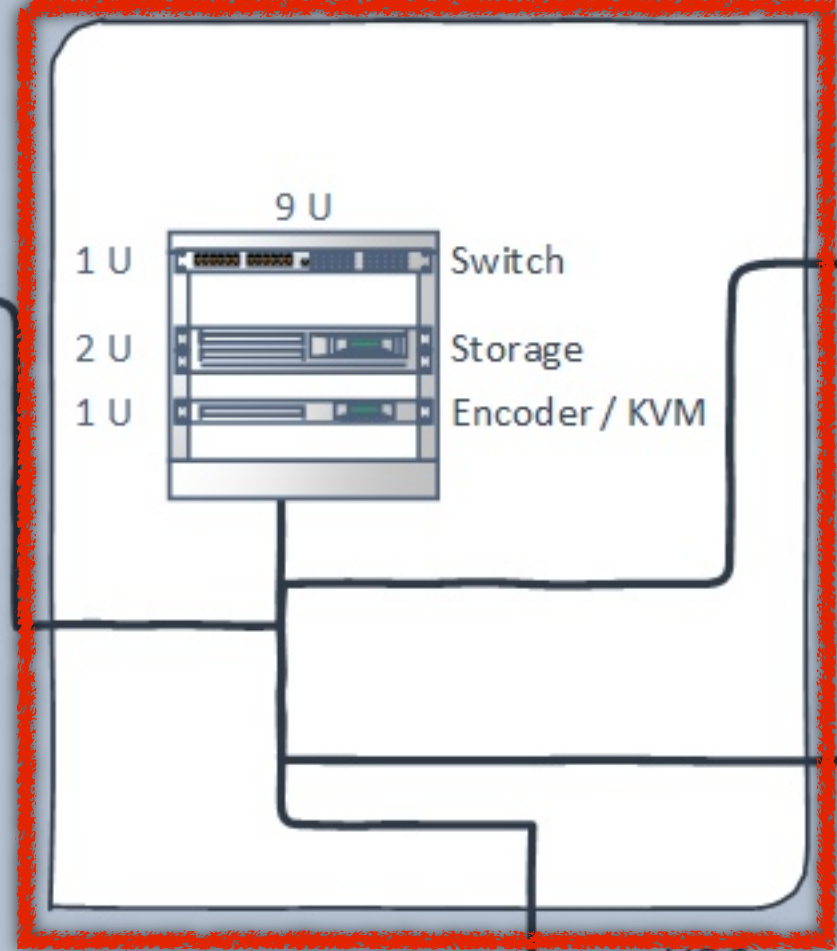
Live streaming = CDN

CDN

- Icecast: WebM, Audio

- Nginx-RTMP: RTMP, HLS

Live viewers statistics

- 34.89 TB of streams delivered to viewers

- 23.7 TB of that Saal 1 HD directly streamed from the CCH

- 24 Streaming relays

- Peak-Fefe: 10000+, avg 4500-6500
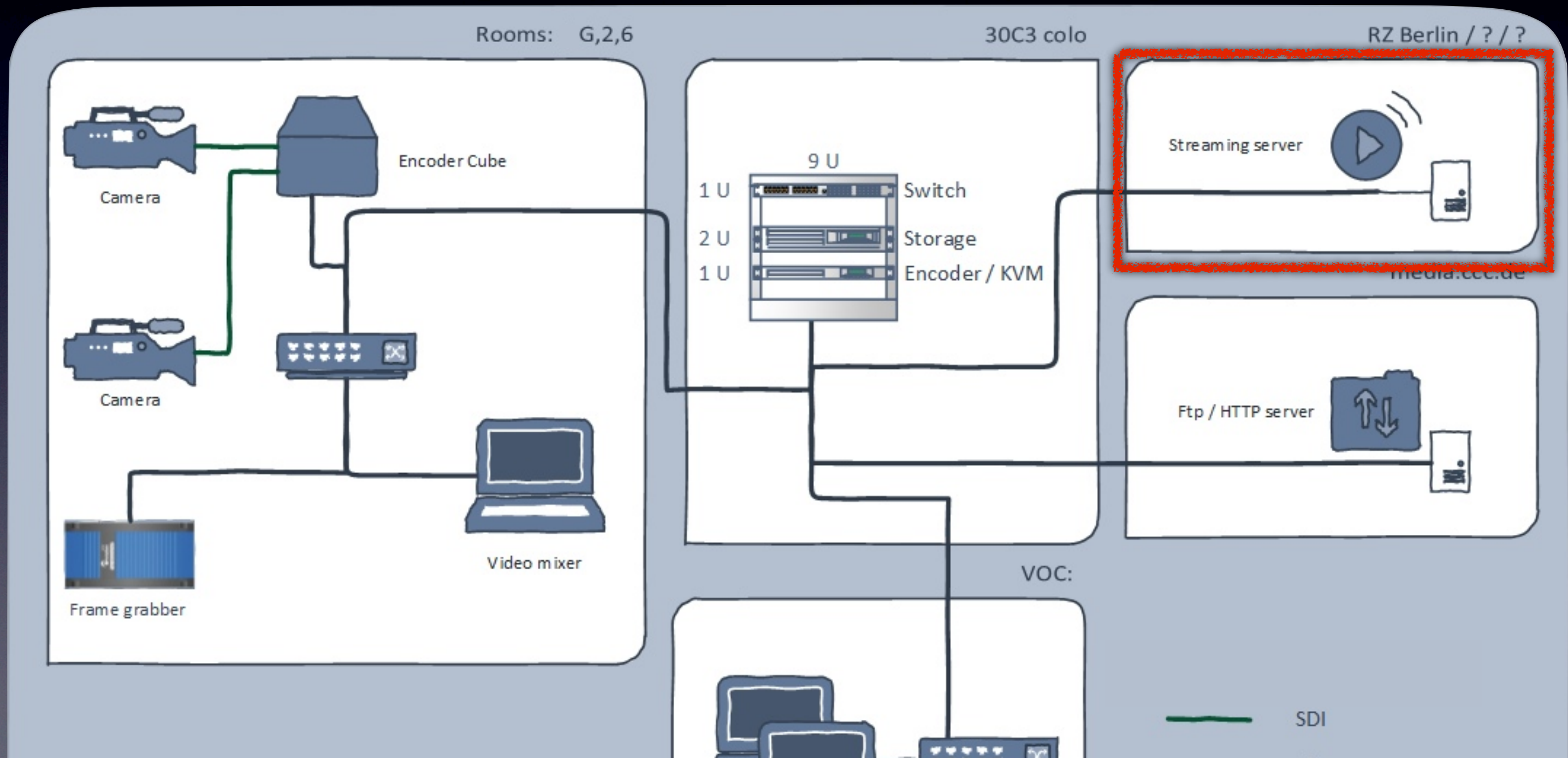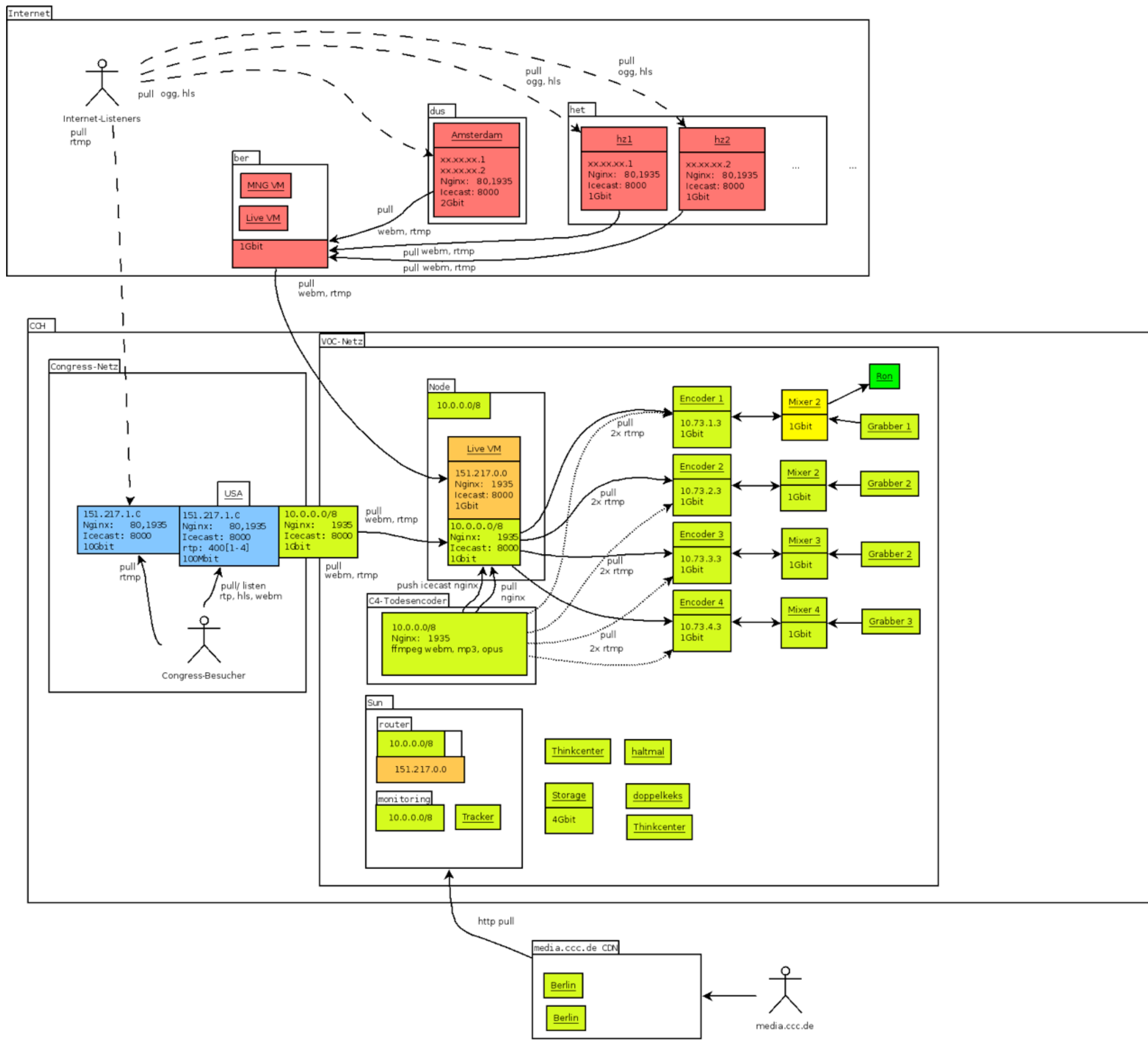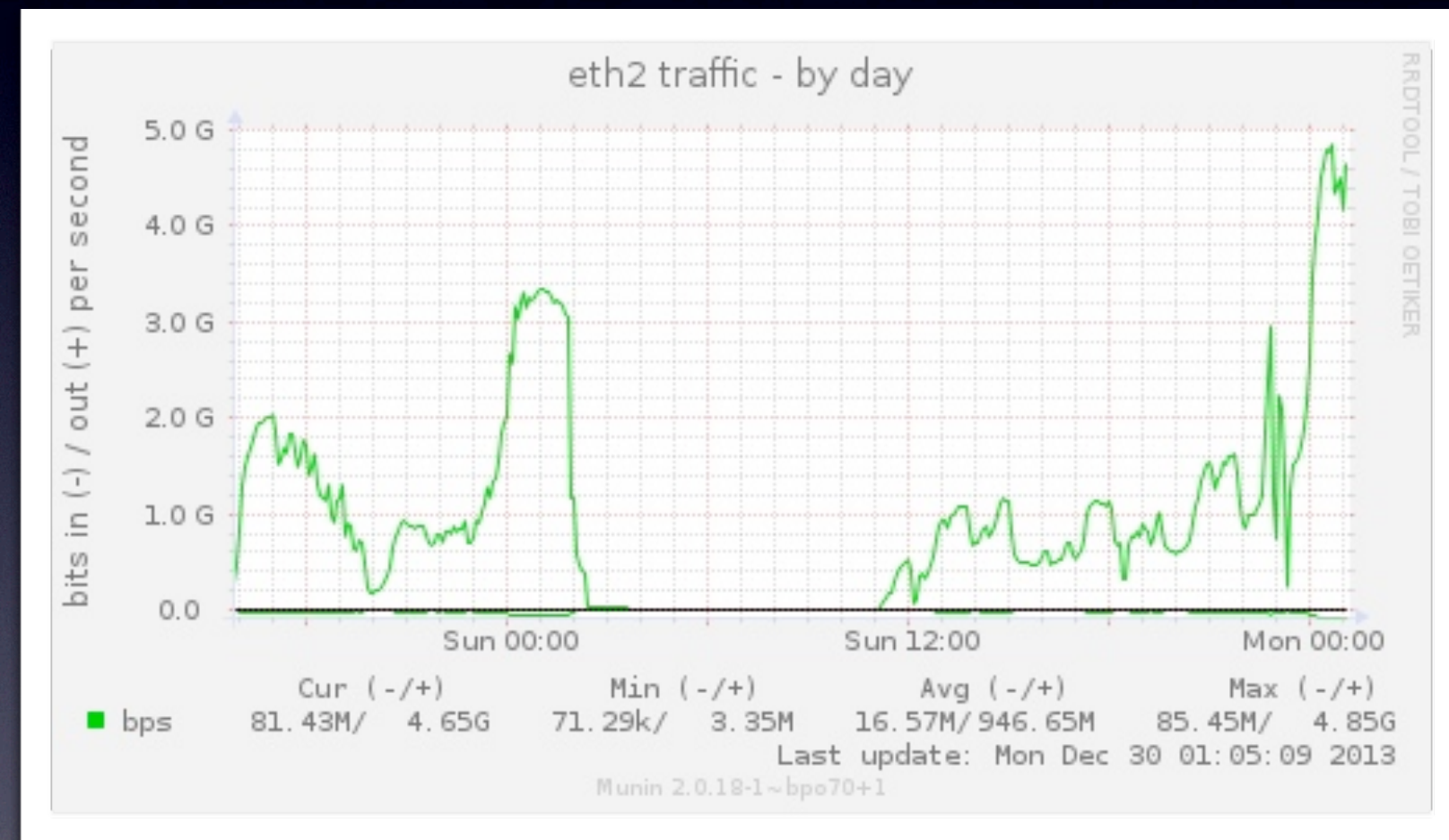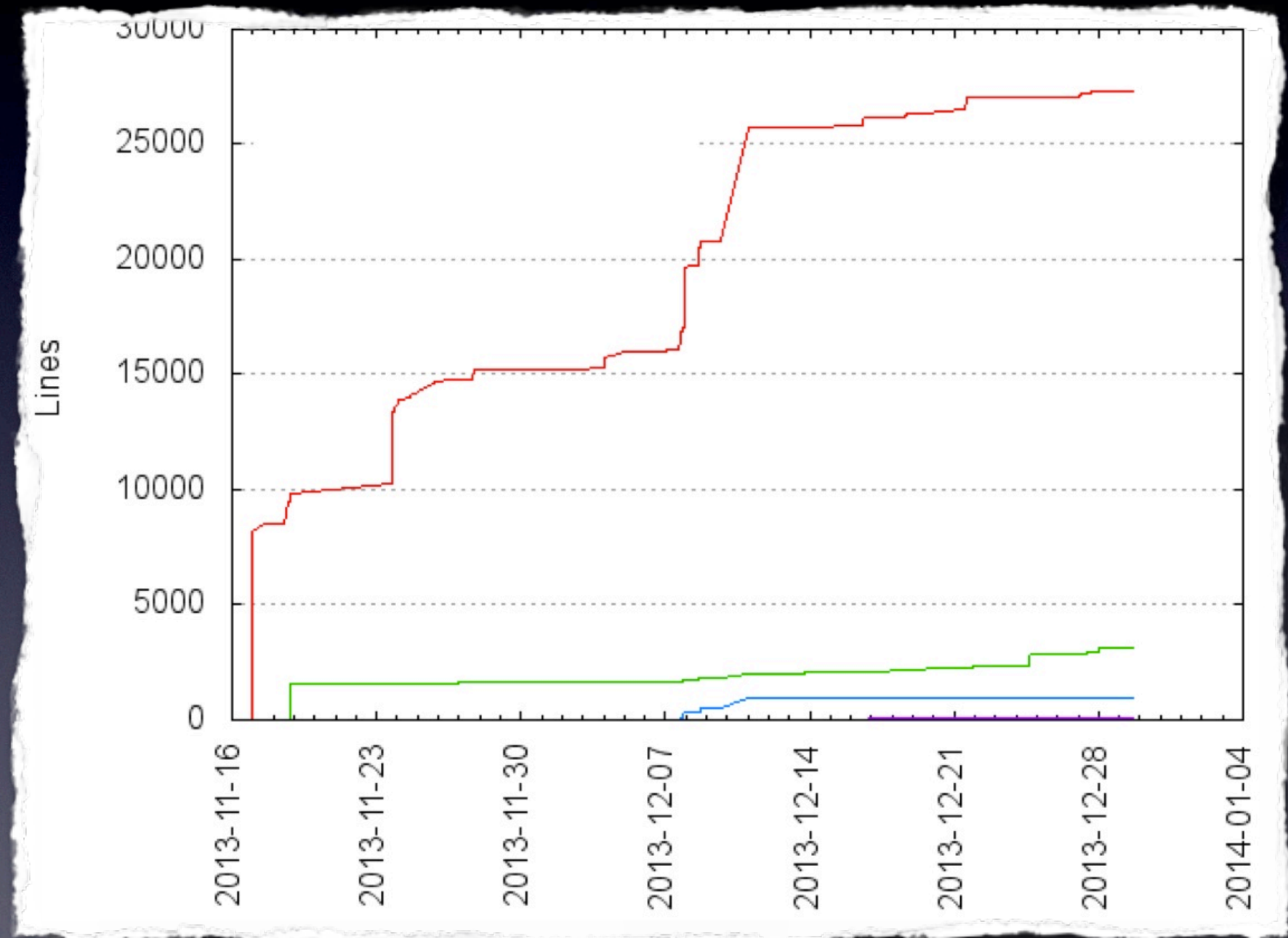
Operations

- puppetize ALL THE THINGS!

- Nagios:
  69 Hosts – 2175 Checks

Recordings — Releasing

- 62% talks released — as of Day3 11:50
- Rest hopefully coming today.
- Formats: MP4 AVC + iProd, WebM, Opus, MP3, SRT

5311	lasers in space		staged	Day 1	16:45	Saal 6	edit	›
	DV zu 2pass WebM	released					edit	›
	H.264 from DV HQ	released					edit	›
	H.264 from DV LQ	released					edit	›
	lasers in space (Recording)	finalized					edit	›
5337	Kryptographie nach Snowden		staged	Day 1	17:15	Saal 2	edit	›
	DV zu 2pass WebM	released					edit	›
	H.264 from DV HQ	released					edit	›
	H.264 from DV LQ	material needed					edit	›
	Kryptographie nach Snowden (Recording)	finalized					edit	›
5527	Basics of Digital Wireless Communication		staged	Day 1	17:15	Saal G	edit	›
	DV zu 2pass WebM	released					edit	›
	H.264 from DV HQ	released					edit	›
	H.264 from DV LQ	material needed					edit	›
	Basics of…Communication (Recording)	finalized					edit	›
5447	Policing the Romantic Crowd		staged	Day 1	17:30	Saal 6	edit	›
	DV zu 2pass WebM	postencoded				check	edit	›
	H.264 from DV HQ	released					edit	›
	H.264 from DV LQ	material needed					edit	›
	Policing the Romantic Crowd (Recording)	finalized					edit	›
5529	Hardening hardware and…a #goodBIOS		staged	Day 1	18:30	Saal 2	edit	›
		5529 – Hardening hardware and choosing a #goodBIOS						
	DV zu 2pass WebM	postencoded				check	edit	›
	H.264 from DV HQ	released					edit	›
	H.264 from DV LQ	material needed					edit	›
	Hardening…#goodBIOS (Recording)	finalized					edit	›

Subtitles

- Pad texts needs to be synced

- Volunteers needed! (You!)

- http://subtitles.media.ccc.de/

- https://events.ccc.de/congress/2013/wiki/Projects:Subtitles

30C3: Subtitles

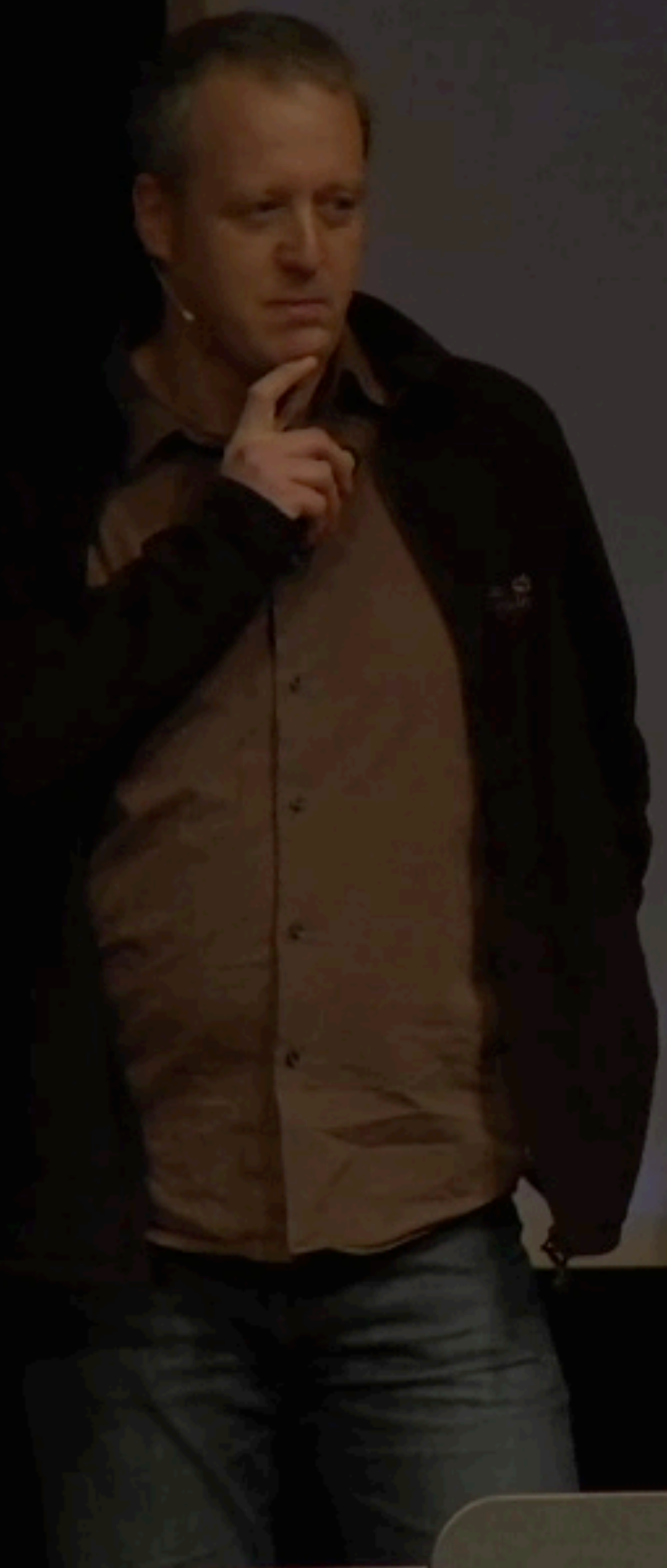| VID	Title		
5610	Seidenstraße	Pad	Video on amara.org
5377	Überwachen und Sprache	Pad	Video on amara.org
5415	Der tiefe Staat	Pad	Video on amara.org
5307	Reverse engineering of CHIASMUS from GSTOOL	Pad	Video on amara.org
5224	Triggering Deep Vulnerabilities Using Symbolic Execution	Pad	Video on amara.org
5497	10 Years of Fun with Embedded Devices	Pad	Video on amara.org
5476	Electronic Bank Robberies	Pad	Video on amara.org
5509	IFGINT	Pad	Video on amara.org
5298	Rock' em Graphic Cards	Pad	–
5311	lasers in space	Pad	Video on amara.org
5337	Kryptographie nach Snowden	Pad	–
5527	Basics of Digital Wireless Communication	Pad	–
5447	Policing the Romantic Crowd	Pad	–
5529	Hardening hardware and choosing a #goodBIOS	Pad	–

Angels are awesome!

- 118 audio/video angels

- ~9 VOC hall coordinators

- 50 - 60 heralds

- 12 - 15 translation angels
  – all german talks where translated into english again

- unknown number of subtitlers

Fuckups

- Memleaks during recording of the opening event

- Stream #0:1[0x101]: Audio: aac ([15][0][0][0] / 0x000F), 0 channels, fltp

- Various network outages

- media.ccc.de API:
  ```
  dir = get_recording_dir;
  FileUtils.remove_dir dir if File.directory? dir
  ```